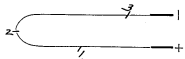
Lamp Test Notebook #1, E-1735, 1895-1897

This notebook covers the period December 1895-February 1897. It is the first of a set of four books used by an unidentified experimenter to record lamp tests, nos. 1-302. This book contains tests, nos. 1-148. Each test lists the amperes, volts, and candlepower used. Most of the lamps tested are designated as "Edison" lamps, although there a few from competitors, including "Buckeye," "Columbia," and "Sunbeam." There is scattered marginalia by either Edison or Thomas A. Edison, Jr. The front cover is marked "Orders. Book No 1. 1 to 148." The pages are unnumbered. Approximately 150 pages have been used. Numerous items have been pasted into the book.

ORDER NO. 1 Edison #14



At 21 Candles. Test Started 5-20 12-19-94 At 16 Candles.

P-2 Loop untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	91¼	.47	a.m. 8-35 Dec 20	7-05	3		87½	.44½
2	91¼	.47¼	p.m. 10-20 Dec 19	5-00	2		87¼	.45
3	91	.48	p.m. 10-00 Dec 19	4-40	1		87	.45
4								
5								
6								
7								
8								
9								
10								
Avg.	91¼	.474		5-35			87¼	.448

	Candles per H. P.
At 16 Candles.	305¼
At 21 Candles.	362¼

ORDER No. 2 Edison 15

At 12 Candles. Test Started 5-26 am 12-19-95

At 16 Candles.

P Loop untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	58½	.41¼	pm 6-18 Dec 19	56	3		61¾	.45
2	57¾	.43¼	pm 6-05 Dec 19	45	2		60½	.46
3	59¼	.42¼	pm 5-55 Dec 19	35	1		62¼	.45
4								
5								
6								
7								
8								
9								
10								
Avg.	58½	.42¼		45 minutes			61½	.453

	Candles per H. P.
At 16 Candles.	428½
At 12 Candles.	360¼

ORDER No. 3 Edison #16

At 37 Candles. Test Started 5-26 12-19-95

At 16 Candles.

P Loop untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	117	.62¾	pm 6-18 Dec 19	0-48	1		101½	.51½
2	119	.63	pm 2-20 Dec 20	11-30	4		102½	.51½
3	118¼	.63	pm 6-55 Dec 20	16-05	5		102	.51¼
4	119	.63	am 10-00 Dec 20	8-10	2		103½	.52
5	120¼	.62½	pm 1-45 Dec 20	10-55	3		105	.57
6								
7								
8								
9								
10								
Avg.	118.7	.629		9.30			102.9	.514

	Candles per H. P.
At 16 Candles.	225½
At 37 Candles.	369¾

ORDER No. 4 Edison # 22

4 10-20 12-23-95 48¼

At 33¾

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	5.2			12																				
5																								
6																								
7																								
8																								
9																								
10																								
Avg.																								
%				35.6																				

No. of Lamp.	Volts.
1	109½
2	109½
3	Dotting
4	109½
5	109½
6	
7	
8	
9	
10	
Avg.	109.5

4 10-20 12-23-95 48¼

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	9.5			5¾																				
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				35.9																				

No. of Lamp.	Volts.	Amperes.
1	109½	.61½
2	109½	.61½
3		
4	109½	.61½
5	109½	.61½
6		
7		
8		
9		
10		
Avg.	109.5	.618

ORDER No. 5 Edison # 23

At 33⅓ Candles. Test Started 5-20 12-19-95 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	109½	.61½	a.m. 4-37 Dec 20	8-47	2		97½	.51½
2	108½	.62	p.m. 11-57 Dec 20	21-07	5		96½	.52
3	109½	.61½	p.m. 9-25 Dec 19	4-05	1		97½	.51½
4	107½	.62	p.m. 11-15 Dec 20	20-25	4		95½	.51½
5	108	.62¼	a.m. 10-42 Dec 20	8-52	3		96	.52
6								
7								
8								
9								
10								
Avg.	108.6	.619		12.39			96.6	.517

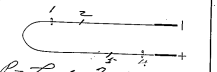
8-Loop Undrsated

	Candles per H. P.
At 16 Candles.	239
At 33⅓ Candles.	370

ORDER No. 4 Edison #22

At 33¾ Candles. Test Started 5-20 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109½	.62	a.m. 10-55 Dec 23	8-15	3		97	.52
2	109½	.61¾	p.m. 7-10 Dec 20	16-20	1		97	.52
3	To high						To High	
4	109½	.61½	a.m. 8-00 Dec 24	8-35	4		97½	.51½
5	109½	.62	p.m. 9-50 Dec 21	22-30	2		97½	.51½
6								
7								
8								
9								
10								
Avg.	109.5	.618		32.25			97.3	.518



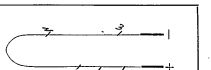
P-Loop Untreated

	Candles per H. P.
At 16 Candles.	237
At 33¾ Candles.	372

ORDER No. 5 Edison #23

At 33⅓ Candles. Test Started 5-20 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109½	61½	a.m. 10-37 Dec 20	8-47	2		97½	.51½
2	108½	.62	p.m. 11-57 Dec 20	21-07	5		96½	.52
3	109½	61½	p.m. 9-25 Dec 19	4-05	1		97½	.51½
4	107½	.62	p.m. 11-15 Dec 20	20-25	4		95½	.51½
5	108	62¼	a.m. 10-42 Dec 20	8-52	3		96	.52
6								
7								
8								
9								
10								
Avg.	108.6	.619		12.39			96.6	.517



P-Loop Untreated

	Candles per H. P.
At 16 Candles.	239
At 33⅓ Candles.	370

ORDER No. 6 Edison #24

At 37½ Candles. Test Started 5-20 12-19-95

At 16 Candles.

P. Loop Untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116½	.66	Pm 8-10 Dec 19	2-50	4		101	.53½
2	118½	.66	Pm 8-15 Dec 19	2-55	5		102½	.53¼
3	114½	.63¾	Pm 7-25 Dec 19	2-05	2		100½	.53½
4	113½	.66¼	Pm 7-20 Dec 19	2-10	3		98½	.54
5	113½	.65	Pm 7-05 Dec 19	1-45	1		98½	.53½
6								
7								
8								
9								
10								
Avg.	115.3	.658		2.19			100.2	.536

Candles per H. P.

At 16 Candles. 222

At 37½ Candles. 369

ORDER No. 7 Edison #25

At 42⅓ Candles. Test Started 5-20 12-19-95

At 16 Candles.

P. Loop Untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	117½	.71¾	Pm 9-05 Dec	3-45	3		100½	.57
2	113½	.73¼	Pm 8-40 Dec 19	3-20	1		96½	.58½
3	To High						To High	
4	To High						To High	
5	117½	.73¼	Pm 9-05 Dec 19	3-45	2		100½	.59
6								
7								
8								
9								
10								
Avg.	116.2	.728		3-36			99.2	.582

Candles per H. P.

At 16 Candles. 206

At 42⅓ Candles. 373

ORDER NO. 8 Edison #26

At 41 Candles. Test Started 5-20 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	118½	.70	a.m. 8-45 Dec 20	6-55	2	104¼	.56
2	115½	.70	p.m. 2-50 Dec 20	12-00	4	101½	.56
3	116	.71	a.m. 11-25 Dec 20	9-35	3	99½	.57½
4	114½	.70	p.m. 10-25 Dec 19	5-05	1	102½	.56
5	115½	.70½	p.m. 4-05 Dec 20	13-15	5	98¾	.57
6							
7							
8							
9							
10							
Avg.	117.6	.703		9-22		100.7	.565

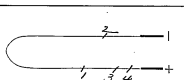
P-Loop Unrated

	Candles per H. P.
At 16 Candles.	210
At 41 Candles.	370

ORDER NO. 9 Edison #27

At 47 Candles. Test Started 5-20 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	112½	.82	a.m. 11-55 Dec 20	10-05	2	94	.63½
2	118½	.79¾	p.m. 2-13 Dec 20	11-23	3	98½	.62½
3	111½	.83½	p.m. 3-45 Dec 20	12-55	4	94	.63½
4	114½	.85	a.m. 9-12 Dec 20	7-22	1	96	.66
5	To High					102	.63
6							
7							
8							
9							
10							
Avg.	114.2	.826		10-24		97.1	.641



P-Loop Unrated

	Candles per H. P.
At 16 Candles.	192
At 47 Candles.	372

ORDER NO. 10 Edison #28

At 40 1/4 Candles. Test Started 5:20 pm 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113 1/2	.72	pm 11-15 Dec 19	5-35	3		96 1/2	.57 1/2
2	114	.72	pm 11-00 Dec 19	5-40	2		97 1/2	.57 1/2
3	114	.73 1/2	pm 11-55 Dec 19	6-35	5		97	.58
4	111	.73 1/2	pm 6-45 Dec 19	6-25	4		95 1/2	.59 1/2
5	110 1/2	.74	pm 6-40 Dec 19	1-20	1		95 1/4	.59 1/4
6								
7								
8								
9								
10								
Avg.	112.6	.73		[illegible]			96.4	.58 4

3 7/8 — 1
1/1
5 — +

P. Loop Unstrated

	Candles per H. P.
At 16 Candles.	212
At 40 1/4 Candles.	363

ORDER NO. 11 Edison #29

At 32 3/4 Candles. Test Started 5:20 pm 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	104 1/2	.62 1/2	pm 3-13 Dec 20	12-23	3		92 1/4	.52 1/2
2	107	.62	pm 2-18 Dec 20	11-28	2		93 1/4	.52 1/2
3	105 1/2	.62	pm 2-05 Dec 20	11-15	1		93 1/4	.52 1/4
4	107 3/4	.60 1/2	pm 5-22 Dec 20	14-32	4		96 1/4	.51
5	108 3/4	.62	a.m. 11-20 Dec 21	24-05	5		97 1/2	.52 1/2
6								
7								
8								
9								
10								
Avg.	106.7	.618		[illegible]			94.9	.522

5 — 7 — 1
1 1/2
3 — +

P. Loop Unstrated

ORDER No. 12 Edison #31

At 26 Candles. Test Started 5-20 12-19-95 At 16 Candles.

P Loop Untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110½	.44½	Pm 2-45 Dec 20	11-25	4		103	.41
2	110½	.45¾	Pm 8-10 Dec 20	7-20	5		102	.41
3	107¾	.50	Pm 1-42 Dec 20	10-52	3		99½	.44½
4	108¾	.45¾	Am 9-57 Dec 20	7-13	1		101	.41
5	107½	.50	Pm 1-32 Dec 20	10-42	2		99	.44½
6								
7								
8								
9								
10								
Avg.	109	.471		11-32			100.9	.424

Candles per H. P.	
At 16 Candles.	279
At 26 Candles.	378

ORDER No. 13 Edison #32

At 23½ Candles. Test Started 5-20 12-19-95 At 16 Candles.

P Loop Untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	105½	.42	Pm 4-00 Dec 20	13-10	3		98¾	.38½
2	110½	.48	Pm 6-00 Dec 20	15-10	4		103	.43½
3	106½	.48½	Pm 4-00 Dec 20	13-10	2		99½	.43½
4	108¾	.48	Pm 1-25 Dec 20	10-35	1		101	.43½
5								
6								
7								
8								
9								
10								
Avg.	107.8	.466		13-02			100.3	.422

Candles per H. P.	
At 16 Candles.	282
At 23½ Candles.	378

ORDER No. 14 Edison #37

At 25 Candles. Test Started 8 pm 5-20 12-19-95 At 16 Candles.

R-Loop Untested

NO. OF LAMP.	VOLTS.	AMPERES.		TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	98½	.50	8 pm 6-30 Dec 19	1-10	3			92¼	.45
2	102½	.49	8 pm 6-18 Dec 19	0-52	1			96¼	.45
3	102½	.49½	8 pm 6-35 Dec 19	1-05	2			96	.45
4	99½	.50	Loose Clamp					93½	.45
5									
6									
7									
8									
9									
10									
Avg.	100.8	.496		1.03				94.5	.45

Candles per H. P.

At 16 Candles. 283

At 25 Candles. 373

ORDER No. 15 Edison #42

At 45¾ Candles. Test Started 8 pm 5-20 12-19-95 At 16 Candles.

R-Loop Untested

NO. OF LAMP.	VOLTS.	AMPERES.		TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	118½	.78½	8 pm 4-45 Dec 20	13-55	4			100½	.61
2	117½	.79½	8 pm 5-55 Dec 20	15-25	3			99½	.62½
3	109¾	.83½	8 pm 11-25 Dec 20	9-35	1			93½	.66½
4	114½	.77½	8 pm 3-35 Dec 20	12-45	3			97¼	.61½
5	116	.78½	8 pm 2-35 Dec 20	11-45	2			98	.62
6									
7									
8									
9									
10									
Avg.	115.3	.79		12.41				97.8	.627

Candles per H. P.

At 16 Candles. 195

At 45¾ Candles. 372

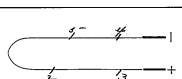
ORDER No. 16 — Edison #10

Order No.	16	9-15-	12-21-95	11-33	12-13-95	10-15-	12-23-95	11-43-	12-24-94	8-20 pm	12-26-95	10-30 pm	12-26-95
Avg.		27		38¼		47½		54		60½		71⅔	

At 36	No. of Lamp.	Volts.	No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
			1																								
			2																								
			3	61½		65.1	29½	60¾		61.1	22	60¼		55.3	21	60¼		54.5	21½	59½		59.7	21½	60		59.2	19½
			4	60¾		65.3	23¾																				
			5	63		70.9	26¼	60½		66.0	23¾	62		61.6	22	61¼		55.3	21								
			6	59.7																							
			7																								
			8																								
			9																								
			10																								
	1	106	Ave.				24¾				22.85				21½				21½				21½				19½
	2	Broke by	%				.687				.626				.578				.578				.577				.571
	3	105																									
	4	104½																									
	5	106																									
			16																								

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
									117½				54				60½				71⅔			
1																								
2																								
3									52			11½	54			8	52			10½	54			9.1
4																								
5									52¼			10	52			10¼								
6																								
7																								
8																								
9																								
10												10¼				11½				10½				9¾
												64.1				55.3				55.6				61.3
Avg. 105.4				.671				58.17				.573				.565								

ORDER No. 17 — Edison #45



At 42¾ Candles. Test Started 5-20 pm 12-19-95 — At 16 Candles. P. Lamp Untreated

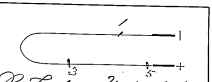
Candles per H. P.	
At 16 Candles.	204
At 42¾ Candles.	377

No. of Lamp.	Volts.	Amperes.	Time When Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	To High						To High	
2	114½	.74½	5-15 pm Dec 19	1-53	2		98½	.60
3	109	.77½	5-30 pm Dec 19	3-10	3		94	.62
4	111	.74½	6-30 pm Dec 19	1-10	1		96½	.60½
5	110¾	.77½	5-33 pm Dec 19	3-13	4		96	.62
6								
7								
8								
9								
10								
Avg.	111.3	.76		2.22			96½	.611

ORDER NO. 16 Edison #43

At 36 Candles. Test Started 5-20 pm 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	106	.67½	5-16 pm Dec 21	26-56	1	92½	.53¾
2	Broke by Accident					93¾	.56
3	105	.65¾	7-18 pm Dec 27	84-24	4	93½	.55½
4	104½	.68½	10 am Dec 21	[illegible]	[illegible]	92½	.58
5	106	.67	3 pm [illegible]	[illegible]	[illegible]	93¼	.56
6							
7							
8							
9							
10							
Avg.	105.4	.671		51.17		93	.563



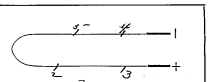
P Loop Untreated

	Candles per H. P.
At 16 Candles.	228
At 36 Candles.	380

ORDER NO. 17 Edison #45

At 42¾ Candles. Test Started 5-20 pm 12-19-95 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	To High					To High	
2	114½	.74½	7-55 pm Dec 19	1-55	2	98½	.60
3	109	.77½	8-30 pm Dec 19	3-10	3	94	.62
4	111	.74½	6-30 pm Dec 19	1-10	1	96½	.60½
5	110¾	.77½	8-33 pm Dec 19	3-13	4	96	.62
6							
7							
8							
9							
10							
Avg.	111.3	.76		2.22		96.2	.611



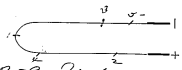
P Loop Untreated

	Candles per H. P.
At 16 Candles.	204
At 42¾ Candles.	377

ORDER No. 18 Edison #46

At 41 3/4 Candles. Test Started Com 5-20 12-19-85 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time When Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	109 1/2	.75 1/2	8 pm 8.08 Nov 24	402.8	4		93 1/2	.61 1/2
2	110	.76	10-30 am Dec 21	23-10	2		94 1/2	.62
3	110	.77	8:40 am Nov 23	[illegible]	5		94	.62 1/2
4	110	.75	3-50 pm Dec 21	27-30	3		94	.61 1/2
5	110 1/2	.75 1/2	1-25 pm Dec 20	10-35	1		94	.60 3/4
6								
7								
8								
9								
10								
Avg.	110	.758		29.31			93.8	.615



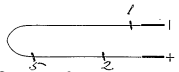
P. Lamp Unbreaked

	Candles per H. P.
At 16 Candles.	209
At 41 3/4 Candles.	374

ORDER No. 19 Edison #54

At 38 1/2 Candles. Test Started 6-00 pm 12-21-85 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time When Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	112	.67 1/2	9:10 pm Dec 23	17.20	2		96	.57
2	113	.67	1.33 am Dec. 23	19.13	1		97	.55 1/2
3	To High						100 1/2	.55
4	To High						99	.54 3/4
5	113	.68	10.10 am Dec 24	22.10	3		97	.56
6								
7								
8								
9								
10								
Avg.	112.7	.682		17.47 2/3			97.9	.557



P. Lamp Unbreaked

	Candles per H. P.
At 16 Candles.	218
At 38 1/2 Candles.	376

ORDER No. [illegible]

78	8.30 PM 1-3-96	2.15 PM 1-6-96	9 am 1-7-96	3.45 PM 1-7-96	9.45 PM 1-8-96	10 PM 1-9-96
6050 L.	114.40	134.25	144.10	[illegible]	173.55	190.10

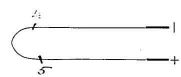
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	45½		47.7	13¼	46		47.7	13¼	45½		42.3	11¾	45			12	45			11¼	44			10
5	44½		47.7	13¼	43¾		51.4	11¼																
6																								
7																								
8																								
9																								
10																								
Avg.				13.3				13¾				11.¾				12				11.¼				10
%				48.2				49.5				42.5				43.2				40.5				36

	114.40				134.25				144.10				157				173.55				190.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	40¾			7¼	41			7¼	40			6½	40			6¼	39¾			6	39			5½
5	41¼			7½	41¼			8																
6																								
7																								
8																								
9																								
10																								
Avg.				7.37				7.87				6½				6¼				6				5½
%				26				49.2				40.8				42.2				37.5				34.4

At 27¾

NO. OF LAMP.	VOLTS.
1	100
2	104
3	104
4	104½
5	104½
6	
7	
8	
9	
10	
Avg.	104.1

ORDER No. [illegible] ion # 74



At 3[illegible] Test Started 10.15 PM 12.24.95

NO. OF LAMP.			TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	At 16 Candles. VOLTS.	AMPERES.
	8¼		10.25 PM Dec 22	.10	2	94	.56
		.72	10.18 PM Dec 26	.03	1	91¼	.59¼
	109½	.702		.06½		96.9	.568

	Candles per H. P.
At 16 Candles.	2.20
At 38 Candles.	3.69

ORDER No. 8 — 12-27-95 — 12-27-95 — 12-30-95 — 1-30 Pm — 12-30-95 — 5:00 Pm 12-31-95 — 5:50 — 1-2-96

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1							7/0				7/0				7/0									
2	.47 1/4		61.3	17	.46 1/2		57.4	14 1/2			56.5	14	43 3/4		56.5	14	.40		44.7	12 1/4				
3	.47 1/4		62.7	17 1/4	47		58.1	14 3/4	.47		56.5	14	46		45.7	12 3/4	.40		44.7	12 1/4				
4	.47 3/4		59.5	16 1/4	47		55.0	13 3/4	.47		53.3	14 1/2	46 1/2		57.4	15 3/4	.46		47.7	13 1/4	45 3/4		45.7	12 1/4
5	.47 3/4		61.5	17	48		56.8	15 3/4	.47 3/4		55.7	14 3/4	46 1/2		54.3	15 3/4	.45		52.3	14 1/2	46 1/2		53.5	14 1/4
6																								
7																								
8																								
9																								
10																								
Avg.				16 3/4				14.9			13 1/4				14				13.04				15.7	
%				82				83.7			82.2				103				97				47.2	

At 27 3/4 — No. of Lamp — Volts

1	104	
2	104	
3	104	
4	104	
5	104 1/2	
6		
7		
8		
9		
10		
Avg.	104.1	

8 — 40 1/4 Amp — 52 Amp — 64 1/4 Amp — 76 — 87.25 — 98.40

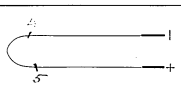
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.47			9 3/4	.72			18 1/4	.71			7 3/4	.96 1/2			3 3/4	.40			7 1/4				
3	.46			9 3/4	.72 1/4			17 1/4	.72			7 1/4	.71			1 1/2	.40 1/2			7				
4	.46			10	.72			9	.71 1/4			6 1/4	.70 3/4			8	.41			7 3/4	.41 1/4			7 3/4
5	.47 1/4			11	.70			9	.72 1/2			9	.72			8 3/4	.42			8 1/4	.40 3/4			7 3/4
6																								
7																								
8																								
9																								
10																								
Avg.				10.6				13.4				8.31				5.5				7.25				7.3
%				60				74.4				103.8				137.2				47				47.2

5 — 104 1/2 — 97.5

ORDER No. 21 — Edison # 74

At 39 Candles. Test Started 10:12 Pm 12-21-95 At 16 Candles.

No. of Lamp	Volts	Amperes	Time when broken	Lamp-life (minutes)	Order of breaking		Volts	Amperes
1								
2								
3								
4	109	.68 1/4	10:23 Pm 12-22-95	.10	2		94	.38
5	109 3/4	.72	10:18 Pm 12-22-95	.03	1		92 1/4	.37 1/4
6								
7								
8								
9								
10								
Avg.	109 1/2	.702		.065			96.9	.378

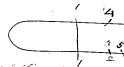


	Candles per H. P.
At 16 Candles.	5.20
At 39 Candles.	3.9

ORDER No. 20 Edison #8

At 27¾ Candles. Test Started 9 AM 1-22-95

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	104	.527	9.00 am	[illegible]	1		94½	.47
2	104	.52½	6.00 pm 1-22-95	582.25	1		94½	.41
3	104	.5.2	3.43 pm Jan 2	92.18	2		91	.41½
4	104½	.52½	11.02 am Jan	184.37	5		95	.41
5	104½	.53	0.00 am 1-24-95	1243.55			95½	.42
6								
7								
8								
9								
10								
Avg.	104.1	.527		95.85			92.2	.41



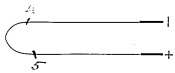
Photographs Horizontal

	Candles per H. P.
At 16 Candles.	4.68
At 27¾ Candles.	5.77

ORDER No. 21 Edison #7

At 39 Candles. Test Started 10.17 AM 12-21-95

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1								
2								
3								
4	109	.68½	10.25 am 12-22-95	.10	2		94	.58
5	109½	.72	10.18 am 12-22-95	.03	1		95½	.59½
6								
7								
8								
9								
10								
Avg.	109½	.702		.065			96.9	.578



	Candles per H. P.
At 16 Candles.	3.20
At 39 Candles.	3.69

77	11.am 1-7-94	10.20 Pm 1-7-94	10.45 Pm 1-8-96	10.40 Pm 1-9-96	8.20 Pm 1-10-96	[illegible]
# 77	3 p.m. 1.24.96 343.10	11.05 p.m. 1.27.96 366.15				

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.70¾			11¼	.68¾			10																
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				11¼				10																
%				26.1				23.2																

					[illegible]				131				108.55				167.05							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.61			5½	.60½			5½	.60			5	.09¾			11¼	.60			5				
2																								
3	.58			5	.57¼			5¼																
4																								
5																								
6																								
7																								
9								5¼				5				4¾				5				
10								[illegible]				[illegible]				29.1				34.2				

ORDER NO. 2[illegible]

At 40

NO. OF LAMP.	VOLTS.	
1	107	
2	107	
3	106¼	
4	107¾	
5		
6		
7		
8		
9		
10		
Avg.	10[illegible]	134.23

220 [illegible]

ORDER N[o.] [illegible] Edison 77

At [illegible] Test Started 11.15 Pm 12-21-95

No. of Lamp			Time when broken.	Lamp life. (Minutes)	Order of breaking.	At 16 Candles. Volts.	Amperes.
1			2.45 Pm Dec 31	884	3	96½	.55
2						98	.57½
3		5	5. Pm Dec 28	2440	2	95¾	.55
4		.67¼	9.15 am Dec 28	19.00	1	95	.55
5		.64¼	9.50 am [illegible]	853		95¾	.55
Avg.	10.1	.661		33.49 / 46.1	[illegible]	96.15	.543

	Candles per H. P.
At 16 Candles.	2.27
At 36 Candles.	5.47

3 4

77 (6000 L.)

	11.am 1-7-94				10.20 pm 1-7-94				10.45 pm 1-8-96				10.40 pm 1-9-96				8.20 pm 1-10-96				[illegible]			
#77 (6000 L.)	8.50 pm. 1.14.96				8.20 pm. 1.15.96				9.55 pm. 1.16.96				4.15 pm. 1.18.96				10.40 am. 1.22.96				3.20 pm. 1.23.96			
	209.45				227.15				244.50				271				307.50				327.30			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	73			13	.77¾			13½	.72			12¼	.72			12½	.71			11.75	.70½			11[illegible]
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				13				13½				12¼				12½				11.75				11[illegible]
%				30.2				31.4				25.5				29.1				27.2				26[illegible]

					121½				137				103.55				167.15							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	61			5½	.60½			5½	60			5	.59¾			4¾	.60			5				
2																								
3	58			5	.57¾			5¼																
4																								
5																								
6																								
7																								
9															4¾					5				
10															29.7					31.2				

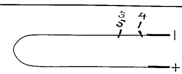
ORDER No. 2[illegible]

At 48

NO. OF LAMP.	VOLTS.			
1	107			
2	107			
3	106¼			
4	107½			
5				
6				
7				
8				
9				
10				
Avg.	107	.812	134.23	[illegible]

ORDER No. 23 Edison 71

At 36 Candles.			Test Started 11.15 am 12.21.95				At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109¾	.66	2.45 pm Dec 31	334[illegible]	3		96½	.55
2							98	.57½
3	109¾	.65	5 pm Dec 28	24.40	2		95½	.55
4	110¾	.67¼	9.15 am Dec 28	19.[illegible]	1		95	.55
5	110¼	.66¼	9.5[illegible] am [illegible]	45.3	[illegible]		95½	.55
6								
7								
8								
9								
10								
Avg.	110.1	.661		33.49 / 44.[illegible]	[illegible]		96.15	.543



	Candles per H. P.
At 16 Candles.	227
At 36 Candles.	367

ORDER No.	77	11.0 am 1-7-96	10.20 am 1-7-96	10.45 am 1-8-96	10.40 pm 1-9-96	8.20 am 1-10-96	2.45 pm 1-10-96
	6000 c.	111.15	121.1/2	139	153.60	162.35	158

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	75		36.6	13 3/4	37 3/4		37.2	15	25			13 3/4	13 3/4			1-7/8	24			14	38 3/4			14 1/4
2																								
3	73		34.9	15	.73		36.	13 3/4																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				13.75				13.75				13 3/4				14 1/2				14				14 1/4
%				35.8				34.3				35.5				37				32 1/2				30.1

At 40 Candles.

NO. OF LAMP.	VOLTS.
1	107
2	107
3	106 1/2
4	107 3/4
5	
6	
7	
8	
9	
10	
Avg.	107

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	61			5 3/4	60 1/2			5 3/4	60			5	57 3/4			1 3/4	60			5				
2																								
3	58			5	57 3/4			5 3/4																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.	1	.812	0					134.23																

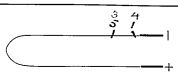
ORDER No. 28	Edison	7

At 36 Candles. Test Started 10.13 am 10.21.95

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.
1	109 1/4	.66	9.45 Am Nov 31	33.3	0
2					
3	109 1/4	.65	5 Pm Nov 28	2440	2
4	110 1/4	.67 1/4	9.15 am Nov 28	1440	1
5	110 1/4	.66 1/4	9.5 am Nov	1553	—
6					
7					
8					
9					
10					
Avg.	110.1	.661		33.47	

At 16 Candles.

VOLTS.	AMPERES.
96 1/2	.55
98	.57 1/2
95 1/2	.55
95	.55
95 1/2	.55
96.15	.543

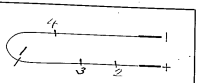


	Candles per H. P.
At 16 Candles.	227
At 36 Candles.	847

Order No. 22 Edison [illegible]

At 48 Candles. Test Started [illegible] 12.21.95 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.	Volts.	Amperes.
1	107	.83	11 Pm. 1.27.96	377.10	4	[illegible]	[illegible]
2	107	.82	3.30 PM Nov 27	5.30	1	[illegible]	[illegible]
3	106½	.82	11.58 am. Nov 3	[illegible]	3	[illegible]	[illegible]
4	107½	.78	12 noon Nov 28	22.40	2	[illegible]	[illegible]
5							
6							
7							
8							
9							
10							
Avg.	107	.812		134.23		[illegible]	[illegible]

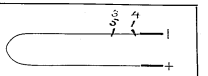


	Candles per H. P.
At [illegible] Candles.	[illegible]
At [illegible] Candles.	51.5

Order No. 23 Edison [illegible]

At 36 Candles. Test Started 11.13 Am 12.21.95 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.	Volts.	Amperes.
1	109½	.66	[illegible] Nov 30	[illegible]	3	96½	.55
2						94	.51½
3	109½	.65	5 PM Nov 28	24.40	2	95½	.55
4	110½	.67½	9.15 am Nov 28	14.30	1	95	.55
5	110½	.66½	9.55 am [illegible]	55.3	[illegible]	95½	.55
6							
7							
8							
9							
10							
Avg.	110.1	.661		33.49 ~~44.7~~	~~[illegible]~~	96.15	.543



	Candles per H. P.
At 16 Candles.	227
At 36 Candles.	847

79	9:40 am 4-7-98				10:10 pm 1-8-98				10:37 pm 1-9-98				2:55 pm 1-13-98											
0000 L.	121.				135.½				150.20				185.10											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.76		34.7	15½																				
2																								
3	.73		37.4	17¾	73½		35.8	17	72		33.7	16	.73	*	32.1	23¾								
4	.72		34.2	14¼	71		32.6	15½	70		30.5	14½												
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				16.13				16.25				15½				23¾								
%				35.4				34.2				32.1				32.1								

#3 lamp put in new bulb.

	121				135.½				150.20															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.60			5																				
2																								
3	.57			5	56			4½	55½			4.2												
4	.57			5	56			4¾	55			4¼												
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				5				16.13				4¼												
%				31.3				30.7																

80	9 pm 1-2-98				7:35 pm 1-5-98				2:20 pm 1-6-98				9:15 am 1-7-98				9:50 pm 1-7-98							
0000 L.	63.15				77.35				97.40				109.30				120.¾							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	75		43.4	19	74¼		38.8	17	77½			16½	72½			13¾	72¼			14¾				
2																								
3	71		39.4	17¼	70		36.6	15																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				15.12				16.5				16.5				13¾				14¼				
%				41.4				37.7				37.7				31.4				33.7				

	63.15				77.35								109.30				120.¾							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	60			6¾	60			5	59			5½	59			4.2	58			4¾				
2																								
3	58			6½	57¼			5½																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				6.37				5¾				5½				4.1½				4¾				
%				37.8				35.1				34.4				25.1				27.7				

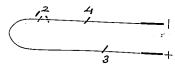
79	8:45 PM 12-26-95				6 PM 12-31-95				8:45 AM 1-2-96				9 PM 1-3-96				2:40 PM 1-6-96				9:20 AM 1-7-96			
Hour	39 1/4				52 1/2				63				78.15				92.55				109.35			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	80		27.6	29 1/2	79		35.3	22	79		44.7	21 1/2	78		45.0	19	11 1/2		42.0	19	77 1/2		35.8	17
2	78		44.3	20 1/2	77		45.5	22	77		42.1	20	77		40.0	19	11 3/4		37.7	18				
3	77		55.5	24	75		45.2	21 1/2	76		45.2	21 1/2	75		42.1	20	14		40.5	19 1/2	70 1/4		35.8	17
4	78		53.7	23 1/2	77		42.1	20	76		44.8	21 1/4	75		45.0	19	14		39.5	19 1/4	72 1/4		33.7	16
5																								
6																								
7																								
8																								
9																								
10				24.3																				
Ave.				22.4				21.4				21				19.25				19 1/4				16
%				57.2				45				44.2				40.5				39.4				35.1
	39 1/4				52 1/2								78.15				92.55							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	64			8	63			7 1/4	62 1/2			6 1/2	62			6	60 1/2			5 1/2	60 1/2			5
2	62			7 1/4	61			6 1/2	61			6 1/2	61			6 1/4	60			5 1/2				
3	60			7 1/4	59			6 1/2	59			6 1/4	58			5 1/4	58			5 1/4	57 1/4			4 1/2
4	61 1/2			7 1/2	61			6 3/4	60			6 3/4	59			6	59			6	57			4 1/2
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				7 1/4				6.75				6.3				6				5.65				4 1/2
%				18.0				42				40.8				37.5				35.3				30

80	9 PM 1-2-96				8:35 PM 1-3-96				2:30 PM 1-6-96				9:15 AM 1-7-96				4:30 PM 1-7-96							
Hour	63.15				77.55				97.45				109.30				120.34							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	75		43.4	19	74 1/4		38.8	17	77 1/4			16 1/2	72 1/2			13 3/4	72 1/4			14 3/4				
2																								
3	71		39.4	17 1/4	70		36.6	16																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				15.12				16.5				16.25				13 3/4				14 3/4				
%				41 1/4				37.7				42.7				34.4				35.7				
	63.15				77.55								109.30				120.34							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	60			6 1/4	60			6	59			5 1/2	59			4.75	58			7 3/4				
2																								
3	58			6 1/2	57 1/4			5 1/2																
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				6.37				5 3/4				5 1/2				4 1/2				4 3/4				
%				39.8				35.1				34.4				28.1				29.7				

ORDER No. 24 Edison 79

At 47 1/2 Candles. Test Started 10.15 12-22-93

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	110.1/4	.81 1/2	10.30 Pm Jan 7	172	2		92	.67
2	110.1/2	.83	9.15 Pm Jan 68	15	1		92	.67
3	110 1/2	.82 1/2	5.40 Pm Jan. 14.96	207.05	4		91	.65
4	110.	.81 1/4	10.50 Am Jan [illegible]	[illegible]	3		91 1/4	.66 1/2
5							93	.69
6								
7								
8								
9								
10								
Avg.	110.0	.822		148.35			91.1	.659

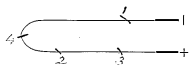


	Candles per H. P.
At Candles.	
At Candles.	

ORDER No. 25 Edison 81

At 48 3/4 Candles. Test Started 10.15 12-22-93

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	106 3/4	.87	1.50 Pm Jan. 5	120.05	4		90	.68 1/2
2	110 1/2	.88 1/2	10.25 Pm Dec 26	331.30	1		93 1/4	.66 3/4
3	107	.72 1/2	9.52 Am Jan 1.	81.[illegible]	3		91	.63
4	106 1/2	.81	9 Pm Jan 5th	16.[illegible]	2		90	.65 1/4
5								
6								
7								
8								
9								
10								
Avg.	107.6	.798		75.14			91.6	.649



	Candles per H. P.
At 16 Candles.	2.01
At 48 3/4 Candles.	[illegible]

ORDER No. 26 Edison #611

At 31½ Candles. Test Started 10.2 12-23-93 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1								
2	103½	.62	10.31 pm 10-23	.31	1		92½	.52
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	103.5	.62					92.5	.52

	Candles per H. P.
At 16 Candles.	248
At 31½ Candles.	259

ORDER No. 27 Edison #70

At 19½ Candles. Test Started 9.00 pm 12-23-93 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	92	.43	11.05 am 12-23	7.05	3		88	.40
2	92¾	.43	9.12 am 12-23	.12	1		88¾	.46
3	92¾	.43	11.05 am 12-23	7.05			88½	.47
4	92¾	.43	11.05 " 12-23	7.05			88¼	.48
5	94	.48½	11.05 am 12-23	2.50	2		89¼	.49
6								
7								
8								
9								
10								
Avg.	92.9	.431		4.53			88.6	.806

	Candles per H. P.
At 16 Candles.	333
At 19½ Candles.	342

482 | 8.20 pm 1-10-96 | 2.05 pm 1-13-96 | 8.50 pm. 1.14.96 | 8.20 pm. 1.15.96

0000 s. 128. 145.15 170.15 186.40

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.44			11¾	.430			11½	42¾			10½	.424			10½								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				11¾				11½				10½				10½								
%				40.4				40.				36.5				35.7								

128

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.09			6½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				6½																				
%				40.3																				

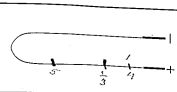
82	9.20 am 1-2-94				9.15 pm 1-3-94				10.05 pm 1-6-94				7.45 am 1-7-94				10. pm 1-7-94				10.20 pm 1-8-94			
000 L.	24				58.55				58.45				70.25				81.43				99			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	48		66.5	19	47		58.3	16 3/4					46		48.7	14	45		47.8	13 3/4	45		45.9	13
3	48		62.4	18	47		55.4	16			54.8	15 3/4												
4																								
5	49		63	18 1/2	48		58.8	16 3/4			58.1	15	47		47	14 1/2	45 1/2		47.8	13 3/4				
6																								
7																								
8																								
9																								
10																								
Ave.				18.5				16.5				15.7				14.3				13.3				13
%				64.8				57.4				53.4				47.8				47.8				48.9

	24				58.55				58.45				70.25				81 1/3				99			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	42 1/2			11	42			9 3/4					40 1/2			7 1/2	41.0			7 1/2	39 3/4			7
3	42 3/4			10 1/2	42			9 1/4	41			8 1/2												
4																								
5	48			10 1/2	42 1/2			9 1/4	42			8 1/2	41 1/2			7 1/4	41.1			7 1/2				
6																								
7																								
8																								
9																								
10																								
Ave.				10.5				9.42				8.5				7.52				7 1/2				7
%				64.1				57				51.1				45.2								

ORDER No. 28 Edison #3

At 28 1/4 Candles. Test Started 9/10/91 12 30 90

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 8 Candles. VOLTS.	AMPERES.
1	116 1/2	.51	6.30 P.M. Dec 20/90		1		100 1/2	.45 1/2
2	111	.51	6.25 P.M. Dec 16/90	6.3	115	5	100 1/2	.45
3	109 1/2	.52	11.35 P.M.	47.35			99 1/2	.48
4	111 1/4	.51	8.00 P.M. Dec 7/90				101	.45
5	108 1/2	.52	8.00 P.M. Dec [illegible]				98 1/2	.48
6								
7								
8								
9								
10								
Avg.	110.3	.514		74.2			99.1	.453

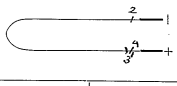


	Candles per H. P.
At 16 Candles.	2.83
At 28 1/4 Candles.	3.28

ORDER No. 29 Edison #17

At 43 Candles. Test Started 9/10/91 12 30 90

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	100 1/2	.90	7.05 P.M. Dec 20/91	[illegible]	2		88	.71 1/2
2	107 1/2	.84	11.05 P.M. Dec 11/91	[illegible]	1		92	.67 1/2
3	107 1/2	.84	9.00 A.M. " 3/91	[illegible]	4		93 1/2	.66 1/2
4	105 1/4	.85 1/2	7.30 P.M. " 3/91	[illegible]	3		90 1/2	.68
5								
6								
7								
8								
9								
10								
Avg.	105.14	.809		3[illegible]			90.3	.6841

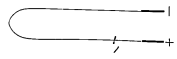


	Candles per H. P.
At 16 Candles.	2.03
At 43 Candles.	1.61

ORDER No. 30 Edison 59

At 47 3/4 Candles. Test Started 9,[illegible] 1-2-96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109 1/2	.96	4.34 pm Jan. 2	2:19	1		91 1/4	.75
2	110 1/2	"			7		98 1/2	.69
3	"						95 1/4	.75
4	"	"					93 1/4	.75
5	"	"					91 3/4	.75
6								
7								
8								
9								
10								
Avg.	109 1/2	.96					101.1	.617

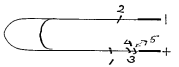


	Candles per H. P.
At 16 Candles.	[illegible]
At 47 3/4 Candles.	33.9

ORDER No. 31 Edison 5[illegible]

At 60 1/4 Candles. Test Started [illegible] At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	93	.128	3.05 pm Jan. 2	53	2		76	.96
2	93 1/2	.128	3.36 pm Jan. 2	[illegible]	4		76	.95
3	91 1/2	.128	3.07 pm Jan. 2	.53	1		75	1.00
4	93	.128	3.26 pm Jan. 2	1.11	3		73 3/4	.96
5	93	1.27 1/4	Broken filing!				75 3/4	.96
6								
7								
8								
9								
10								
Avg.	92.08	.128		[illegible]			75.7	.966

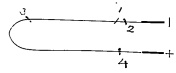


	Candles per H. P.
At 16 Candles.	16.3
At 60 1/4 Candles.	85.1

ORDER No. 32 Edison 55

At 111 Candles. Test Started 7:11 PM 1 3 56 At 11 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	93 1/4	.333	7. PM Jan 2nd	[illegible]	1		[illegible]	.11 1/4
2	104 1/4	.77 1/4	3:50 PM Jan 2	1.13			97 1/2	.6 1/8
3	48	.79 1/2	5:45 PM Jan 2	[illegible]	3		95	.6 3/4
4	99	.81 1/2	355 Jan 2	[illegible]	2		88 1/2	.6 3/4
5								
6								
7								
8								
9								
10								
Avg.	99 1/4	.526		2.[illegible]			96.2	[illegible]

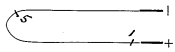


	Candles per H. P.
At 11 Candles.	[illegible]
At [illegible] Candles.	[illegible]

ORDER No. 33 Edison 57

At 56 Candles. Test Started 6:33 PM 1 2 56 At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	108 3/4	1.07	3.30 Pm. Jan 2	[illegible]	2		88 3/4	.91 1/2
2	do	do					93 3/4	.71 1/2
3	"	"					94	.71
4	"	"					91 1/2	.74
5	107	99	330 Pm Jan 2.	2.35	1		88 3/4	.75
6								
7								
8								
9								
10								
Avg.	108.07	1.03		2.35			90.75	.7455

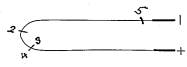


	Candles per H. P.
At 6 Candles.	171
At 56 Candles.	3844

ORDER NO. 811 Edison 4.9

At 8 7/4 Candles. Test Started 1.33 pm 1-12-96 At Candles.

NO. OF LAMP.	VOLTS.	AMPERES.		TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108 1/4	.72	3.02 pm Jan 2	1.8		1		91 1/4	.38
2	94 1/2	.73	3.13 pm Jan 2			2		87	.39
3	107	.69	3.13 pm Jan 2			3		94 1/4	.37 1/4
4	107 1/4	.72	3.40 pm Jan 2	1.5		4		94	.37 1/4
5	108	.70	3.30 pm Jan 2			5		93	.37
6									
7									
8									
9									
10									
Avg.	105	.71		1.3				92.09	.381



	Candles per H. P.
At 16 Candles.	3.23
At 7 Candles.	.5

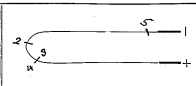
1892	3.PM 1-13-96				9pm. 1-14-96				8.20pm. 1-15-96				9.55pm. 1-16-96				4.15pm. 1-18-96							
GOOD L.	110.35				132.45				148.35				166.10				192.30							
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.
1																								
2																								
3	.73 1/4		138	16 1/4	.72 1/4		37.9	14 1/2	.72 1/4		39.2	15	.72 1/2		39.2	15	.71		36.6	14				
4	.73 1/4		35.5	22 1/4	.73 1/4		52.9	20 1/2	.70 1/2		57.6	19 3/4	.70		49	18 3/4	.69 3/4		46.4	17 3/4				
5	.73 1/4		42.5	16 1/4	.73		39.9	15 1/4																
6																								
7																								
8																								
9																								
10																								
Avg.				16.1				16.67				17.37				16.87				15.87				
%				47.1				43.6				45.4				44.1				41.5				

ORDER NO. 84 Edison

At [illegible] Candles. Test Started [illegible]

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108¼	.72	3.02 pm	1.[illegible]	1		4¼	.28
2	99½	.71	3.13 pm	[illegible]	[illegible]		57	.29
3	107	.19	3.13 pm	[illegible]	3		44¼	.37¼
4	107¼	.72	3.40 pm	1.[illegible]	4		44	.37¼
5	104	.70	3.55 pm	[illegible]	5		43	.4[illegible]
6								
7								
8								
9								
10								
Avg.	105	.71		1.3			42.05	.251

At [illegible] Candles.



	Candles per H. P.
At 16 Candles.	[illegible]
At [illegible] Candles.	5

#79² Lamp 4 – 1.11.96. 96 hours

Reading before new Vacuum at high cp.

V	A	C.P
96	73¼	17

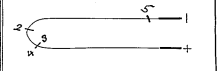
Reading after new Vacuum at high cp

V	A	C.P
96	72¼	17

Reading after Carbon was placed in new bulb showing change in cp owing to discoloring of bulb.

V	A	C.P
96	72	22½

ORDER No. 324 Edison 39



At 1 3/4 Candles. Test Started 1:33 PM 1-7-98 At Candles.

NO. OF LAMP.	VOLTS.	AMPERES.		TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	103 3/4	.72	3.03 Pm	1.05		1		97 1/4	.55
2	99 1/2	.71	2.13 Pm					97	.59
3	107	.69	3.13 Pm			3		97 1/4	.57 1/4
4	107 1/4	.72	3.40 Pm	1.05		4		97	.59
5	104	.70	3.33 Pm			5		97	.57
6									
7									
8									
9									
10									
Avg.	103	.71		1.3				97.05	.57

	Candles per H. P.
At 16 Candles.	322
At 32 Candles.	15

1998	8:15 PM 1-6-98				10.02 Am 1-7-98				10.05 PM 1-7-98				10:30 PM 1-8-98				10:20 PM 1-9-98				8:35 PM 1-10-98			
HOUR L.	20.50				32.35				43 3/8				61.05				75.55				90.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	77		55.5	25	76		56.7	21 1/4	75.5		52.3	20	.74		44.4	17	71		44.4	17	72.2 1/4		47.1	18
3	77 3/4		55.4	25	75 1/4		56.4	21 1/4	75 3/4		52.9	20 1/4	75.2		50.3	18 1/4	71 1/2		44.2	17	71 1/4		47.1	18
4	78		54.7	24 1/2	75		54.9	21	75		49.7	19	.74		49	18 1/4	73		45.7	17 1/2	72		43.1	17 1/2
5	77 3/4		54	24 1/2	77		53.3	20	75 3/4		48	18 1/2	75		46.4	17 1/4	75		42.5	16 1/2	74 1/4		41.2	15 3/4
6																								
7																								
8																								
9																								
10																								
Ave.				24 3/4				21				19.4				18.19				16.34				17
%				67.7				57.9				54.8				47.5				44				44.4

	20.50				32.35				43 3/8				61.05				75.55				90.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	63			9 1/2	62			7 1/2	62			7 1/2	61 1/4			7	60			6 1/4	59			6 1/2
3	63			9 1/4	62 1/2			7 1/4	62 1/2			7 1/2	61 1/4			7 1/4	61			6 1/2	60			6 1/4
4	63			8 3/4	61 1/4			7 1/2	61			7 1/2	62 1/4			7	59 1/2			6 1/4	60			6
5	64			9	60 1/2			7	60			7 1/4	62 1/4			6 1/4	62			6 1/2	61 1/2			6
6																								
7																								
8																								
9																								
10																								
Ave.				9 1/4				7.32				7.44				6.5				6.33				6.14
%				57.8				47.7				46.5								39.8				38.4

ORDER No. 84 Edison 8 p

At 8 1/2 Candles. Test Started 1.5 2 1/2 1-3-96

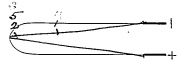
No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At Candles. Volts.	Amperes.
1	105 1/4	.72	3.03 p.m. Jan. 5	1.5	1		97 1/2	.75
2	99 1/2	.73	3.13 p.m. Jan. 5		2		87	.79
3	107	.79	3.13 p.m. Jan. 2		3		94 1/4	.77 1/4
4	107 1/4	.77	3.40 p.m. Jan. 2	1.25	4		94	.79 1/4
5	105	.76	3.30 p.m. Jan. 2		5		93	.79
6								
7								
8								
9								
10								
Avg.	105	.71		1.3			92.03	.781

	Candles per H. P.
At 16 Candles.	3.3
At 8 1/2 Candles.	5

ORDER No. 85 Edison 8 p

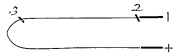
At 38 1/4 Candles. Test Started 8.25 a.m. 1-3-96

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	95 1/4	.81	7.34 a.m. Jan. 6	14.01	1		82	.66 1/4
2	95 1/2	.83	9 a.m. Jan. 6		2		81 1/4	.67 1/4
3	95	.82	7.45 a.m. 1.21.96	270.15	5		81 1/2	.67
4	96	.79 1/2	10.45 a.m. Jan. 20	197.15	4		82	.65
5	95 1/2	.80 1/2	8.10 p.m. Jan. 15	148.25	3		82 1/2	.66 1/2
6								
7								
8								
9								
10								
Avg.	95.45	.81 2		135.02			81.85	.664



	Candles per H. P.
At 16 Candles.	3.19
At 38 1/4 Candles.	[illegible]

ORDER No. 61 Edison #90



At 19 Candles. Test Started 5.23 Pm. 1.11.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.	Volts.	Amperes.
1	30 High					97½	.79
2	104½	.72				92	.66
3	107½	.72½				[illegible]	[illegible]
4	30 High					[illegible]	[illegible]
5	Broken Glass					90	.78
6							
7							
8							
9							
10							
Avg.	107	72½		2.04		93.1	0.74

Candles per H. P.

At 16 Candles. 21.6

At Candles.

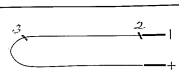
Section	10.40 a.m. 1.22.97				3.20 p.m. 1.23.96				3 p.m. 1.24.96				11.05 a.m. 1.27.96				1.45 p.m. 1.28.96				11.40 a.m. 1.29.96			
	225.40				245.20				261				284.05				301.45				316.40			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.58			13½	.57½			13	.57½			12¾	.56			11½	.46½			11½	.56¾			12¾
3	.54			13½	.53¾			13	.53¾			12¾	.52½			11½	.46½			12½	.52¾			12
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				13.5				13				12¾				11½				12				12.375
%				42.2				40.6				39.8				35.9				~~38.8~~ 37.5				38.6

ORDER No. 16 Edison #90

At 19 Candles. Test Started 5:23 PM 1-11-96

At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	[illegible]	[illegible]					97 3/4	.59
2	104 1/2	.72	[illegible]				92	.56
3	107 1/2	.72 1/4	[illegible]				[illegible]	[illegible]
4	[illegible]	[illegible]						
5	Broken Glass						90	.58
6								
7								
8								
9								
10								
Avg.	107	72 1/2		2.04			93.1	0.57 1/4



	Candles per H. P.
At 16 Candles.	2.16
At Candles.	

	5:00 PM 1-10-96				8:10 PM 1-10-96				9:05 pm 1-14-96				8:45 pm 1-15-96				10:25 pm 1-16-96				4:25 pm 1-18-96			
Avg. L.	88				108 1/2				119.45				136.30				164.05				189.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.60		53.1	17	.60		58.6	16	.58 1/2		47.6	15 1/4	.59		46.1	14 3/4	.59		46.1	14 3/4	.58		44.5	14 1/4
3	.58 1/4		51.6	16 1/2	.55		58.8	16 1/4	.58 1/2		47.7	15 1/4	.55		46.9	15	.55		46.1	14 1/4	.54 3/4		44.5	14 1/4
4	.59		52.7	17																				
5	.59		50.	16	.59		58.8	16 1/4	.58 1/4		46.4	15 1/2	.57 3/4		45.3	14 1/2	.57 3/4		45.3	14 1/2	.56 3/4		43.	13 3/4
6																								
7																								
8																								
9																								
10																								
Ave.				15.57				16.17				15.3				14 3/4				14.44				14.05
%				47.8				47.5				47.9				46.1				45.5				44

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.52			8 1/4																				
3	.48 1/2			7 3/4																				
4	.57			6 3/4																				
5	.58 1/2			7 1/2																				
6																								
7																								
8																								
9																								
10																								
Ave.				7.37																				
%				47.2																				

ORDER No. 16 Edison #90

At 19 Candles. Test Started 5:23 PM 1-8-98 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.	Volts.	Amperes.
1	[illegible]	[illegible]				97½	.57
2	104½	.72				97	.56
3	107½	.72½				[illegible]	[illegible]
4	20 [illegible]	[illegible]				[illegible]	[illegible]
5	Broken Glass					90	.58
6							
7							
8							
9							
10							
Avg.	107	72		2.04		93.1	0.57

3 2 1 +

Candles per H. P.

At 16 Candles. 216

At Candles.

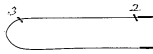
Minutes 1000 L.	5:23 PM 1-4-98				5:40 PM 1-8-98				10:20 AM 1-8-98				9:10 AM 1-7-98				8:50 PM 1-8-98				4:35 PM 1-9-98			
	10				20.00				30.25				40½				56.55				72.40			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	62		87.5	28	61		77.3	24¾	58½		68	21¾	.60		66.4	21½	.57½		58.6	18¾	57		55.1	17
2	60		87.5	28	62¾		79.7	23¾	62		67.4	21¾	.61		60.9	19½	61		57.8	18½	60		55.5	17¾
3	59		89.5	28	59		77.4	24¾	58		64.1	20½	.57½		62.5	20	57		54.7	17½	57		55.5	17¾
4	64¾		84.4	27	63		65.6	21	62		54.7	17½	.60½		52.3	15¾	60		49.2	15¼	60		45.3	14½
5	63		90.6	29	62¾		79.7	23½	62		68	21¾	.63		67.2	21½	.60½		55.4	19	60		56.2	18
6																								
7																								
8																								
9																								
10																								
Ave.				28				24¼				20.6				19.8				17.9				17
%				81.5				76.9				65.4				62.7 / 61.9				55.9				53.1

	10				20.05				30.25				40½				56.55				72.40			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.53½			14½	.53			12½	.52¾			11	.53½			10¼	.51			9	.50¾			8¼
2	.55			15	.52¾			12¾	.53			11	.53			10¼	.53			9¾	.52¼			8¾
3	.52			14½	.54			12¾	.53¾			10¾	.54½			10	.49½			9¼	.48			7¾
4	.55¾			15½	.52¾			10½	.53			8½	.52			8.4	.52			7¾	.51			8¼
5	.52½			15¼	.53			12	.52¾			10	.54½			7½	.52			7	.51			
6																								
7																								
8																								
9																								
10																								
Ave.				14¾				12.1				10¼				9.1				8.55				8.25
%				87.1				76.1				64				60.4				57				51.8

ORDER No. 16 Edison 90

At 19 Candles. Test Started 5.23 PM 1.31.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	[illegible]	[illegible]				97½	.59
2	104½	.72				92	.60
3	107½	.72½	[illegible]			[illegible]	[illegible]
4	[illegible]	[illegible]					
5	[illegible]	[illegible]				90	.58
6							
7							
8							
9							
10							
Avg.	107	72½		2.04		93.1	.57½

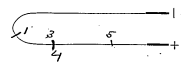


	Candles per H. P.
At 16 Candles.	2.16
At Candles.	

ORDER No. 17 Special

At 32 Candles. Test Started [illegible] 96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	100½	.63	3.45 p.m. 1.10.96	[illegible]	1	90	.57
2	99½	.65	4 p.m. 2.3.96	376.50	4	89	.58½
3	107½	.62	9.15 p.m. 1.30.96	341.15	3	90½	.53½
4	99½	.66	Taken down by Mr Edison			89	.58
5	99	.64	4.45 p.m. 1.18.96	189.30	2	87½	.55
6							
7							
8							
9							
10							
Avg.	100	.63		247.45		89.2	.57



	Candles per H. P.
At 16 Candles.	2.45
At 32 Candles.	3.77

Put away in box

43B	3.50 p.m. 1.23.96				3.30 p.m. 1.24.96				1.10 p.m. 1.27.96				2.15 p.m. 1.28.96				2.10 p.m. 1.29.96				9 a.m. 2.28.96			
000 s.	232.05				247.45				271.25				288.30				304.25				661.50			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.55 3/4			14 1/4 .55				14 .54 1/2				12 3/4 .55				13 .55				13 .50				10
2	.55 1/2			12 1/2 .55 1/4				13 .54 1/2				11 3/4 .55				11 1/2 .55				11 3/4 .52				9 1/2
3	.59 1/2			15 1/2 .59 1/4				13 3/4 .58 1/2				14 1/2 .58 1/2				15 .58 1/2				14 3/4 .54				10 3/4
4	.52			13 1/2 .52				13 1/2 .51				12 1/2 .51 1/2				12 1/2 .51 1/2				12 1/2 .48				10
5	.54			11 1/2 .54				11 1/2 .53 1/2				10 1/2 .53 3/4				10 1/2 .53 3/4				10 .52				9 1/4
6																								
7																								
8																								
9																								
10																								
Ave.				13.4				13.50				12.35				12.55				12.4				9.95
%				40.6				41.				37.4				38				37.6				30.1

43B	3.15 p.m. 5.18.96				9.40 p.m. 8.27.96																			
	1517.10				2105.25																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			8 .50				6 1/2																
2	.51			7 3/4 .50				6 3/4																
3	.52			7 3/4 .50				6 3/4																
4	.47			8 1/2 .47				7 1/4																
5	.51			9 .52				9																
6																								
7																								
8																								
9																								
10																								
Ave.				8.15				7.2																
%				24.7				21.8																

#41	3:20 pm 1-13-96				9:15 pm 1-14-96				8:45 pm. 1-15-96				10:30 p.m. 1-16-96				4:35 pm. 1-20-96				11 a.m. 1-22-96			
	94.20				116				132.25				150.10				176.15				212.15			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.60		51.5	20	.55		28.3	18	.58		53	17	.57		51.5	17	.57			15	.56			14
2	.57		51.5	17	.55		22.3	17	.57		48.5	16	.57		53.7	18	.56			14	.56			13
3	.60		53.7	22	.64		22.3	21	.65		60.6	20	.62		58.3	19	.61			18	.60			17
4	.57		57.3	18	.54		23.2	16	.54		51.5	17	.53		48.5	16	.58			15	.52			14
5	.57		46.9	15	.55		20.1	13	.55		43.2	14	.55		39.4	13	.54			12	.54			11
6																								
7																								
8																								
9																								
10																								
Ave.				17.3				17.2				16.95				16.2				15				14.2
%				50.7				52.1				51.4				49.1				45.5				43

42B	3 p.m. 1-24-96				1:10 p.m. 1-27-96				2:15 p.m. 1-28-96				2:10 p.m. 1-29-96				9 a.m. 2-28-96				3 p.m. 5-18-96			
	244.45				268.55				286				301.55				659.20				1514.40			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.55			11	.55			10	.55			10	.55			10								
2	.66			15	.66			13	.66			14	.65			13	.62			11	.55			8
3	.62			11	.61			10	.61			10	.61			10	.58			8	.55			6
4	.70			13	.69			13	.69			13	.69			13	.63			9				
5	.59			14	.58			13	.59			13	.58			13								
6																								
7																								
8																								
9																								
10																								
Ave.				13.1				12.05				12.3				12				9.55				7
%				36.9				33.9				34.6				33.8				27				19.7

41 B 1000 L.	9:30 pm 1-5-96				3:00 pm 1-7-96				8:45 pm 1-7-96				8:40 am 1-8-96				8:45 pm 1-8-96				9:00 am 1-10-96			
	10.30				20.30				28.14				41.40				57.40				71.40			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.
1	69½		28.5	26	69		78.8	25			74.2	22½	62		66.6	22	62		66.6	22	60		50.5	20
2	65		80.3	21½	64		74.7	24½	63		72.8	24	62½		66.6	22	61½		52.1	20½	60		55.5	19½
3	62½	X	82.4	23½	61	X	75	24½	69		103.4	24½	57		80.3	21½	55		75	19½	55		69.7	23
4	57		72.7	24	57½		66.5	22	57½		63.6	21	57		69.8	19½	55		56.1	18½	53½		54.1	18½
5	60½		78.8	23	59		70.4	23½	57½		67.4	22½	57½		69.8	19½	55½		53	17½	53½		47.7	17½
6																								
7																								
8																								
9																								
10											25.2	5				22				20.5				7.4
Avg.				23.5				23.1				22.4				19.4				18.5				18.2
%				78.4				77				74.7				66.5				62.5				

	10.80				20.30				28.14				41.40				57.40				71.40			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	57			12½	58			12½	.55			12	57			11½	52½			10½	52			9½
2	55			13	57½			11	.57			11½	55½			10½	52			9½	51½			9
3	55	X		12½	57½	X		12	.59			12½	57½			13	57			12	52			11
4	49½			10½	47½			9½	.48			9	45			8½	47			9½	44½			7½
5	52½			13½	57			11½	.57			11½	50			10	49½			8½	45			7
6																								
7																								

Avg.	100.45	60.05																						

42 B	9:30 pm 1-14-96				2:55 pm 1-15-96				10:50 pm 1-16-96				4:45 pm 1-18-96				11:10 am 1-22-96				4:40 pm 1-23-96			
	113				129.25				147.20				173.15				209.55				229.45			
No.	A	R	% V	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.59½		41.5	14¾	.59		42.2	15	.59		39.4	14	.58		37.3	13.25	.57			12	.56½			11½
2	.70		50.7	18	.70		50.7	18	.69		47.2	16½	.68		45.1	16	.68			16	.67½			15½
3	.67		42.6	15	.66		42.2	15	.65		39.4	14	.64		36.6	13	.63½			11½	.63½			12½
4	.72½		38.7	13½	.72		35.4	14	.72		38	13½	.71½		37.3	13½	.70½			13	.70			13
5	.62½		46.8	16½	.62½		49.3	17½	.62		45.1	16	.60½		42.2	15	.60			15	.59½			14
6																								
7																								
8																								
9																								
10																								
Avg.				15.6				15.9				14.85				14.1				12.55				13.6
%				43.9				44.8				41.8				39.7				35.2				37.3

Avg.	100.45	66.05					88.8	55.0

42 6050 L.	9.30 am 1-7-98				9.30 pm 1-8-98				9.15 pm 1-8-98				9.15 pm 1-9-98				9.40 pm 1-10-98				3.40 pm 1-13 98			
	11.20				23⅓				39.05				55.05				71.30				91.30			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	%	C.P.	A	R	%	C.P.
1	.67		71.8	28½	.66		71.1	25¾	.65		63.4	22½	.63		56.3	20	.62½		52.8	18¾	.61		47.2	16¾
2	.74		83.1	29½	.75		73.9	24¼	.74		56.3	20	.72		59.1	21	.71½		57.7	20½	.71		56.3	20
3	.74		81.7	29	.73		69.	24½	.71		59.9	21¼	.68		50.7	18	.68		49.3	17½	.67		47.1	16¾
4	.80		83.1	29½	.78		71.1	25¼	.77		62	22	.75		52.1	18½	.74½		46.7	16½	.74		44.4	15¾
5	.68		67.6	24	.66¾		64.8	23	.64		59.1	21	.65		53.5	19	.64		52.1	18½	.63½		47.9	17
6																								
7																								
8																								
9																								
10																								
Ave.				27½				24.85				21.35				19.0				18.05				17.25
%				77.5				70.				60.1				53.4				51.7				48.5

	11.20				22⅓				39.05				55.05				71.30							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.57			11¼	.55			10¾	.54			9½	.55			9½	.52			7½				
2	.65½			12¾	.63			11½	.62			10	.61			9	.60½			8½				
3	.65			13	.63			11½	.60			9¾	.58¾			8½	.57½			7½				
4	.68			13¼	.66¾			11½	.65			10	.63¼			8	.62½			6¾				
5	.57½			11	.57½			10¼	.57			9¼	[illegible]			9	.54½			8				
6																								
7																								
8																								
9																								
10																								
Ave.				12½				11.1				9.7				8.8				7.30				
%				71.4				63.4				60.4				55				47.8				

ORDER No. 38 Edison B

At 33 Candles. Test Started 10 [illegible] At Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	82½	87½	✗				[illegible]	87½
2	82½	[illegible]	✗				[illegible]	[illegible]
3	12[illegible]		See Smith Book 2 25 [illegible]				[illegible]	[illegible]
4	102½						[illegible]	[illegible]
5	102		✗				[illegible]	[illegible]
6								
7								
8	✗ Fallen down		8/27/96 at 9 10 pm. Put up at 37 Walls.		See order No. 93			
9								
10								
Avg.	106.75	66.05					88.5	[illegible]

1 +

Candles per H. P.

At Candles. [illegible]

At Candles.

ORDER No. 39 Edison B

At 35½ Candles. Test Started 2 10 pm. 1.6 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	104½	70	8.40 pm. 2.11.96	452.30	1		90½	.58½
2	91½	75½	2.30 pm. 11.16.96	2857.45	Fallen down		70½	.65
3	91½	78	9.05 pm. 10.28.96	2697.20	4		80	.58½
4	88	82½	3.15 pm. 3.2.96	687.50	3		76½	.67
5	94½	72	10 pm. 2.20.96	582.20	2		82½	.60½
6								
7								
8								
9								
10								
Avg.	94.7	76.2		1455.45			81.8	.63

35 1 / 14 +

Candles per H. P.

At 16 Candles. 3.36

At 35½ Candles. 3.69

Edward Weber

Began 10.40 Pm. 1-9-96

Rate 13.30

No.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.58½		91.8	.28																				
3	.58½		86.5	.27																				
4	.60		97.5	.28½																				
5	.58		93.4	.28½																				
6																								
7																								
9																								
10																								
Ave.				.28.31																				
%				92.3																				

13.30

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.52			15½																				
3	.57			14½																				
4	.53			16¾																				
5	.57½			7¼																				
6																								
7																								
8																								
9																								
10				.15½																				

1.35 pm. 1.29.96 9 am. 2.28.96

266 624

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	.57½			13	.52½			9¾																
5																								
6																								
7																								
8																								
9																								
10				13				9¾																
Ave.				35.4				26.5																
%																								

48e 6000 L.	4.55 p.m. 1.18.96				11 a.m. 1.22.96				3.20 p.m. 1.23.96				3 p.m. 1.24.96				11.05 a.m. 1.27.96				1.45 p.m. 1.28.96			
	138.05				174.25				193.45				209.25				232.30				250.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	.60			15 3/4	.59			15	.58 1/2			14 1/4	.58 3/4			14 1/2	.57 1/4			13 1/2	.57 3/4			13 1/2
5																								
6																								
7																								
8																								
9																								
10				15 1/2				15				14 1/4				14 1/2				13 1/2				13 1/2
Ave.				42.7				40.8				38.5				37.5				36.7				36.7
%																								

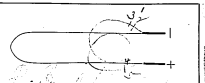
Type 3 600 L.	11.15 am 1-9-96				10.15 pm 1-10-96				4.0 pm 1-13-96				9.40 pm 1-14-96				9.40 pm 1-15-96				10 pm 1-16-96			
	10.45				36.45				57.05				79.15				96.15				111.10			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.
1	.75		84.4	21	.71		58.8	22	.70		57.8	21½	.67		48.3	17½	.66		46.9	17½	.65		44.9	16½
2	.73		83	27																				
3	.77		86.6	30																				
4	.70		75	27½	.66½		61.9	22½	6.5		61.2	22½	.63½		55.1	20½	.63		53.1	19½	.62½		52.4	19½
5	.72½		73.7	27																				
6																								
7																								
8																								
9																								
10				28½				22.37				21.37				19				18.37				17.37
Ave.				27.5				60.9				57½				51.7				50				48.0

	10.45				36.45			
No.	A	R	V	C.P.	A	R	V	C.P.
1	.63½			13½	.61			9½
2	.62			12½				
3	.65			13½				
4	.58			11½	.58½			9½
5	.61			11½				
6								
7								
8								
9								
10								
Ave.				12.4				9½
				77.5				57.4

ORDER No. [illegible]

At 30 Candles. Test Started [illegible]

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At [illegible] Candles. Volts.	Amperes.
1	[illegible]	62	3.55 pm. 1.8.96	[illegible]	[illegible]		[illegible]	[illegible]
2	96	[illegible]	4.40 pm. 1.8.96	15	[illegible]		[illegible]	[illegible]
3	[illegible]	63	1.30 pm. 1.8.96	[illegible]	2			[illegible]
4	[illegible]	[illegible]	6.43 " 1.8.96	[illegible]	[illegible]		[illegible]	[illegible]
5	[illegible]	[illegible]	10.25 " 1.8.96	[illegible]	[illegible]		[illegible]	[illegible]
6								
7								
8								
9		[illegible]						
10								
Avg.	98.1	62.85		[illegible]			[illegible]	[illegible]



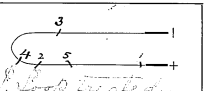
[illegible] Speed

	Candles per H. P.
At [illegible] Candles.	[illegible]
At [illegible] Candles.	

ORDER No. 41 [illegible] C

At 36 3/4 Candles. Test Started [illegible]

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	93 1/2	77	2.15 pm. 1.17.96	110.25	4		81	64 1/2
2	95	79 1/2	11.45 am. 1.9.96	[illegible]	2		84 1/2	66
3	91	80 1/2	8.35 pm. 1.9.96	10[illegible]	1		78	66 1/2
4	96 1/2	75	8.05 pm. 3.12.96	769.35	5		83	62 1/2
5	92 1/2	79	10 am 1.10.96	25.30	3		80	66
6								
7								
8								
9								
10								
Avg.	93.7	78.[illegible]		191.10			80.93	66.[illegible]



V. Loop Inverted.

	Candles per H. P.
At 16 Candles.	225
At [illegible] Candles.	37

Incident

Interval [illegible] [illegible] [illegible]

# 42a	9am 2.28.96				3.15pm 5.18.96																			
	593.15				1447.15																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.61			9½	.55¾			7																
2																								
3																								
4																								
5	.61			7¾	.55½			5																
6																								
7																								
8																								
9																								
10								6																
Ave.				8.62				159																
%				22.8																				

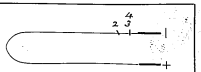
	10.10pm. 1.16.96				4.10pm. 1.17.96				11.30pm. 1.17.96				5.30pm 1.18.96											
	10 hours after 2nd heat				20 hours after 2nd heat (2 measurements)				After treating steam 3rd time															
No.	A	R	4/6	C.P.	A	R	4/6	C.P.	A	R	4/6	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.64		74.6	24½	.63		68.7	22	.63¼		72.6	23¼	.61¼			23								
2	.64¾		68.7	22																				
3																								
4	.59		49.5	22¼	.57¾		60.9	19.5	.58		64.1	20½												
5	.58		71.9	23	.57¾		67.2	21.5	.57¼		67.2	21½												
6																								
7																								
8																								
9																								
10																								
Ave.				22.94				21				21.75				23								
%				7.7				65.6				68				71.9								

#41 a	10.40 a.m. 1.22.96				3.30 p.m. 1.23.96				1.40 p.m. 1.24.96				11.05 a.m. 1.27.96				1.45 p.m. 1.28.96				2.38 p.m. 1.29.96			
	143.20				163.10				177.20				201.45				219.25				235.15			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.66 4/7			16 1/2	.66			15 4/7	.65 1/2			14 1/2	.46 1/2			13 1/2	.64 3/7			13 1/2	64 3/7			13 1/2
2																								
3																								
4																								
5	.67 3/7			13 1/2					.65 1/7			11 1/2	.65			10 1/4	.65 1/2			11 1/7	.65			10 3/7
6																								
7																								
8																								
9																								
10																								
Ave.				15				15 1/7				13				12 1/7				12.37				12.1
%				39.7				40.4				34.4				33.1				32.8				32.1

#13 a	5.15 p.m. 1-13-96				10.15 a.m. 1-14-96				5 p.m. 1-14-96 after breathing pure oxygen				11.30 a.m. 1-15-96				8 p.m. 1-15-96				11.10 a.m. 1-16-96 after breathing pure oxygen some time			
	9.40				19								12.30 after				20 after							
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.
1	.67		84.4	27	.66 1/7		71.9	23	.66 1/2		78.1	25	.65		78.1	25	.65		71.9	23	.65		75	24
2	.61		81.2	26	.59 1/2		66.4	21 1/7	.60		75	24	.58		71	22 3/7	.57		64.8	20 3/7	.58		68.7	22
3																								
4	.63		82.8	26 1/2	.61		64.8	20 3/7	.61 1/2		70.3	22 1/2	.60		69.5	22 1/2	.60		66.4	21 1/7	.60		67.2	21 1/2
5	.62		83.6	26 3/7	.61 1/7		70.3	22 1/2	.61		75	24	.60		74.2	23 1/7	.59		69.5	22 1/7	.59		68.7	22
6																								
7																								
8																								
9																								
10																								
Ave.				26.86				21.87				23.87				23.44				21.81				22.37
%				83				68.3				74.6				73.2				68.2				69.9

No.	4.40 pm. 1-11-96				5 pm. 1-13-96				9.50 pm. 1-14-96				9.40 pm. 1.15.96				11.05 pm. 1-16-96				4.55 pm. 1-18-96			
	16.45				27.45				47.15				63.05				81.30				107.20			
	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.
1	.74		78.8	29½	.73		70.2	25½	.71		57.6	21¾	.70		56.3	21½	.69¾		51.7	19½				
2	.80		81.5	30¾	.77		67.5	25½																
3	.83¾		88.7	33½	.83½		75.1	29½	.80¾		64.9	24½												
4	.85¾		88.1	33¾	.78		74.2	28	.80		62.9	23¾	.78		57.6	21½	.76¾		51	19¼	.68		47	17¾
5	.82¾		84.8	32	.79½		71.8	27½	.75		55	20¾	.73		50.3	19	.72		47	17¾	.64		38.4	14¾
6																								
7																								
8																								
9																								
10																								
				31.13				27.4				22.69				20.66				18.83				16.
				34.4				32.5				60.1				54.7				49.7				4

ORDER No. 42. Edison #42 B

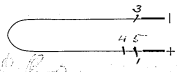


At $37\frac{3}{4}$ Candles. Test Started 1.15 p.m. 1.10.96 At 16 Candles.

Candles per H. P.
At 22 Candles.
At Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes).	Order of breaking.		Volts.	Amperes.
1	$100\frac{1}{2}$	$.70\frac{1}{2}$	11 30 p.m. 11.5.96	2727.20	5	Yellowish	$86\frac{1}{2}$	.69
2	$84\frac{1}{2}$	.85	10.50 a.m. 1.14.96	47.15	1		72	.71
3	88	$.87\frac{1}{2}$	11 p.m. 1.13.96	58.25	2		76	.73
4	86	.86	10.0 a.m. 1.17.96	58.25	3		74	.74
5	$85\frac{1}{2}$	[illegible]	10 p.m. 7.3.96	1958.40	4		[illegible]	[illegible]
6								
7								
8								
9								
10								
Avg.	86.75	.848					[illegible]	[illegible]

ORDER No. 43 Edison Patent B



At 32 Candles. Test Started 5.1 p.m. 7.1.96 At $\frac{1}{2}$ Candles.

Candles per H. P.
At 16 Candles.
At 32 Candles.

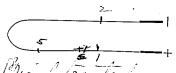
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes).	Order of breaking.		Volts.	Amperes.	
1	$94\frac{1}{2}$	1.9	9.30 p.m. 1.20.96	42.30	5		$84\frac{1}{2}$	.59	Read at end of Pictures
2	$98\frac{3}{4}$	6.3	Broke by accident 10.10 p.m.		2		[illegible]	.53	" " " " 20 "
3	$100\frac{1}{2}$	6.3	3 p.m. 1.13.96	7.2[illegible]	1		96	$.57\frac{1}{2}$	Break Vacuum Read again
4	98	6.5	7.20 a.m. 1.18.96	72.35	3		$88\frac{1}{2}$	.56	at original 8 p at end of [illegible]
5	92	6.4	9.50 a.m. 1.18.96	75.05	4		$88\frac{1}{2}$	$.54\frac{1}{2}$	10 and 20 hours
6									
7									
8									
9									
10									
Avg.	98.15	.64		62.24			87.9	.55	

Put away in box

B.M.	1.40 p.m. 1.24.96				10.05 a.m. 1.27.96				11.15 a.m. 1.28.96				10.40 a.m. 1.29.96				1.45 p.m. 2.5.96				8.25 p.m. 2.27.96			
	145.25				168.50				186.				201.25				292.05				545.10			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	.49½			15¾	.49			15¼	.49½			15	.49½			15¾	.49			14¼				
4	.49			15¾	.48¾			15	.49			15¾	.48½			15¼	.48½			14½	.45			13
5	.50½			14¾	.50			14	.50			14¼	.50			15	.50			14½	.47			13¼
6																								
7																								
8																								
9																								
10																								
Avg.				15.42				14¾				14.92				15.3				14.42				13.12
%				96.4				92.2				93.2				95.6				90.1				82

Date	10.50 p.m. 1.14.96				10 p.m. 1.15.96				11.15 a.m. 1.16.96				5.05 p.m. 1.18.96				11.20 a.m. 1.22.96				2.30 p.m. 1.23.96			
	163				32.30				49.45				75.35				112.05				131.15			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	49 3/4		100	16	.50		104	16 1/2	.50		104	16 1/4	.48 1/2		106	17								
2	49 1/4		103	16	.49 1/2		98.9	15 1/2	.50		101	16 1/4	.49		98.4	15 3/4								
3	49 1/4		96.9	15 3/4	.49 1/2		92.8	15	.50		100	16	.49 1/2		98.2	15 3/4	.49.5			15 1/2	.49 1/2			16
4	49 1/4		98.4	15 3/4	.49 1/2		93.7	15	.50		101	16 1/4	.49 1/2		100	16	.49 1/2			16	.49			16
5	.51		100.4	16	.51		106	16 3/4	.51 1/4		101	16 1/4	.50 3/4		98.4	15 3/4	.50 3/4			15 1/4	.50 1/2			15 1/2
6																								
7																								
8																								
9																								
10																								
Avg.				15.85				15.8				16.3				15.65				15.75				15.7
%				99.1				98.8				101.4				100.3				98				98.7

ORDER No. 44 Bryant & Marsh



Spiral coated

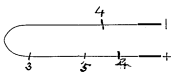
At Candles. Test Started 10:30 p.m. 1.13.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1			5.15 p.m. 1.21.96	101 –	2		107	.46½
2			8 a.m. 1.20.96	764.5	1		107	.45
3			10.40 a.m. 2.14.96	404.40	3		107	.45½
4			11.55 p.m. 3.13.96	713.10	5		107	.45
5			9 a.m. 3.12.96	685.15	4		106	.45½
6								
7								
8								
9								
10								
Avg.				396.10			106.8	.45½

	Candles per H. P.
At 16 Candles.	23.34
At Candles.	

Put away in box

ORDER No. 45 Edison



At 38¼ Candles. Test Started 11 p.m. 1.13.96 At 16 Candles.

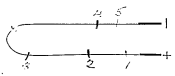
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	Too high						98	.55½
2	110½	.70½	9.05 a.m. 1.16.96	33.05	4		95¾	.58½
3	110	.69	2 p.m. 1.15.96	21.00	2		95	.56½
4	108	.70	8.25 p.m. 1.15.96	27.25	3		93	.57½
5	109	.70½	8 a.m. 1.14.96	2.00	1		94	.55
6								
7								
8								
9								
10								
Avg.	109.4	.70		20.52			95.2	.5673

	Candles per H. P.
At 16 Candles.	21.32
At 38¼ Candles.	

Put away in box

#92	9:30 a.m. 1-21-96																								
Wgt.	15.15																								
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.80			30																				
3																								
4																								
5	.77			27½																				
6																								
7																								
8																								
9																								
10																								
Ave.				28¾																				
%				67.4																				

ORDER No. 46 Edison # 43 I



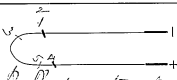
At $37\frac{3}{4}$ Candles. Test Started 10^10 a.m. 1.15.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lasting time (minutes)	Order of breaking.		Volts.	Amperes.
1	106	.72	7 p.m. 1.22.96	82	4		$91\frac{1}{2}$	.59
2	107	$.71\frac{1}{2}$	4 p.m. 1.18.96	47 m	3		93	.59
3	$107\frac{1}{4}$	$.71\frac{3}{4}$	7.40 p.m. 1.17.96	40.30	2		$92\frac{1}{2}$	.58
4	106	.71	4.45 p.m. 1.17.96	[illegible]	1		92	.58
5	$104\frac{1}{2}$	$.72\frac{1}{2}$	9.20 a.m. 1.23.96	37	5		91	.59
6								
7								
8								
9								
10								
Avg.	106.15	.7175		58.53			92	.586

	Candles per H. P.
At 16 Candles.	221
At $37\frac{3}{4}$ Candles.	370

Put away in book

ORDER No. 47 Edison # 92



P. Cook untreated

At $42\frac{1}{3}$ Candles. Test Started 10.15 p.m. 1.20.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lasting time (minutes)	Order of breaking.		Volts.	Amperes.
1	98	$.89\frac{1}{4}$	8.10 p.m. 1.21.96	13.55	1		$83\frac{3}{4}$	$.71\frac{3}{4}$
2	100	$.56\frac{3}{4}$	1.55 p.m. 1.22.96	23.40	2		86	.70
3	98	$.54\frac{1}{4}$	8.10 p.m. 1.21.96	13.55	1		$83\frac{3}{4}$	$.67\frac{3}{4}$
4	$98\frac{1}{2}$	.56	8.10 p.m. 1.21.96	13.55	1		84	$.65\frac{1}{4}$
5	$100\frac{1}{2}$	.52	6.15 p.m. 1.22.96	28	3		$85\frac{3}{4}$	$.65\frac{3}{4}$
6								
7								
8								
9								
10								
Avg.	99	.556		18.41			84.7	.687

	Candles per H. P.
At 16 Candles.	205
At $42\frac{1}{3}$ Candles.	372

Put away in book

#93 1000 c.	9.30 p.m. 1.21.96				9.15 p.m. 1.22.96				9 p.m. 1.23.96				9 p.m. 1.24.96											
	15.15								46.45				62.40											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.85			30½	.91½		52.5	22¾	.79½			19												
2	.83			27¼	.79½		-17.9	20¾	.77¾			18¼	.76			16								
3	.86½			28	.83		58.8	22	.80			19												
4	.83			26																				
5	.84			26	.81		-49	21¾																
6																								
7																								
8																								
9																								
10																								
Ave.				27.5				21.68				18¾				16								
%				63.6				50				-13.3				36.4								

#95 1000 c.	1.35 p.m. 1.29.96																							
	113.20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.82¾			18																				
2	.82¼			17¾																				
3	.81			18																				
4	.80			16¾																				
5	.79½			17																				
6																								
7																								
8																								
9																								
10																								
Ave.				17.5																				
%				46.5																				

#95	9.50 p.m. 1.21.96				10 p.m. 1.22.96				9.20 P.M. 1.23.96				10 p.m. 1.24.96				11.05 a.m. 1.27.96				1.45 p.m. 1.28.96			
ELEV.	15.35				31.45				47.05				62.45				79.50				97.30			
No.	A	R	V	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	87			30	.85		66.5	25 3/4	.84 1/4		60.5	22 3/4	.83 3/4			20 3/4	.82			18	.82 1/2			17
2	86			28 1/2	.85		66.5	25	.84		59.2	22 1/4	.83 1/4			20	.82			18	.82 1/2			17 3/4
3	85			29	.83 1/2		65.8	24 3/4	.82 3/4		58.5	22	.82 1/2			21	.81 1/2			19	.81 1/4			18 1/2
4	85			30	.83		65.1	24 1/2	.82		58.5	22	.81 3/4			20	.80			17 1/2	.80 1/2			17 1/2
5	83 1/2			29 1/4	.83		64.8	25 1/2	.81 3/4		58.5	22	.80 3/4			20 1/2	.78 1/2			17 1/4	.79 1/2			17 3/4
6																								
7																								
8																								
9																								
10																								
Ave.				29.45				25.1				22.2				20.45				17.95				17.7
%				74.3				66.6				59				54.3				47.7				47

ORDER No. 48 Edison #93

At 43 1/3 Candles. Test Started 10.15 P.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	100	.85 1/2	10.40 P.m. 1.23.96	28.2	1		85	.70 1/2
2	99	86 3/4	7.[illegible]	66.40	3		84 1/4	.70
3	96 1/2	.91	11.05 P.m. 1.23.96	[illegible]	4		82	.72 1/2
4	99	.87	2.20 P.m. 1.22.96	24.05	1		84	.69 1/2
5	88 1/2	.89	10 a.m. 1.23.96	[illegible]	2		83	.71 1/2
6								
7								
8								
9								
10								
Avg.	98.6	.884		44.57			83.9	.705

P. Lamp in Use

	Candles per H. P.
At 16 Candles.	202
At 43 1/3 Candles.	.871

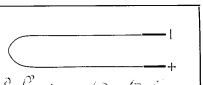
Put away in box

ORDER No. 49 Edison #95

At 37 2/3 Candles. Test Started 10.15 P.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	85	.89					.73	.73
2	85	.88 1/2					.74	.73
3	85	.87 1/4					.74 1/2	.72 3/4
4	86	.87					.74 3/4	.72
5	87	.86					.76	.71 1/4
6								
7								
8								
9								
10								
Avg.	85.6	.875					74.5	.724

Lamp is taken down 1.31.96 9.10 P.m. 157.55 life



P. Lamp in Use

	Candles per H. P.
At 16 Candles.	221
At 37 2/3 Candles.	.874

#96	9.50 p.m. 1.21.96																							
000 L.	15.35																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C
1																								
2																								
3	.85½		57.3	22½																				
4	.79½		46.4	50½																				
5	.78		44.9	77½																				
6																								
7																								
8																								
9																								
10																								
Ave.				15.6																				
%				47.3																				

#97	10.05 p.m. 1.21.96				8.50 p.m. 1.22.96				9 p.m. 1.23.96				9.45 p.m. 1.24.96											
000 L.	15.50				30.35				46.45				63.30											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.91		49.3	26																				
3	.97¾		55.7	29½	.95			24½	.93½			20½	.91½			18								
4																								
5	.92		52.1	28																				
6																								
7																								
8																								
9																								
10																								
Ave.				27.5				24½				20½				18								
%				52.7				46				38.9				34.1								

ORDER No. 50 Edison #96

At 39 Candles. Test Started 10.15 a.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	84 1/2	.88 3/4	10 a.m. 1.21.96	[illegible]	1		73	.73 1/2
2	86	.93	5.50 p.m. 1.21.96	11.35	2		74 1/2	.76
3	86 3/4	.92 1/2	10.30 p.m. 1.21.96	[illegible]	3		75	.75 3/4
4	85	.92	8.05 a.m. 1.22.96	[illegible]	5		73 1/2	.75
5	86 3/4	.95	7.25 a.m. 1.22.96	8	4		75	[illegible]
6								
7								
8								
9								
10								
Avg.	85.8	.91		13.05			74.2	.88.3

P. Cooper Hewitt

	Candles per H. P.
At 16 Candles.	216
At 39 Candles.	372

Put away in box

ORDER No. 51 Edison #97

At 52 3/4 Candles. Test Started 10.15 a.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109	.97	10 a.m. 1.21.96	15.45	1		80 3/4	.74 1/2
2	107	.100	8.35 p.m. 1.22.96	36.20	3		88	.76
3	103 1/2	104 1/4	5.25 p.m. 1.23.96	75.10	4		84 1/2	75 1/2
4	Too high						91	74 3/4
5	107	100	5.20 p.m. 1.22.96	27.05	2		88	.75 1/4
6								
7								
8								
9								
10								
Avg.	106.6	100.3		39.20			88.3	76

P. Cooper Hewitt

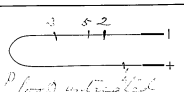
	Candles per H. P.
At 16 Candles.	178
At 52 3/4 Candles.	367

Put away in box

#98 / 1000 L.	10.05 p.m. 1.21.96				9.15 p.m. 1.22.96				9 p.m. 1.23.96				9 p.m. 1.24.96											
	15.50				31				46.45				62.45											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4	.95		40.7	29¾	.92¾		47.5	23½	.88¾			18½	.88			17½								
5	.95½		41.30		.92½		43	24	.89½			20½	.88¼			19								
6																								
7																								
8																								
9																								
10																								
Ave.				29.57				23¾				19.38				18.25								
%				66.4				48.4				39.5				37.2								

#100	10.20 p.m. 1.21.96				9.15 p.m. 1.22.96				9 p.m. 1.23.96				9 p.m. 1.24.96				11.05 a.m. 1.27.96				1.45 p.m. 1.28.96			
	16.05				31				46.45				62.45				79.50				97.00			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.42¾		73	18¼	.41		59	14¾																
3	.44½		70	17½																				
4	.42		72	18	.40¾		60	15	.40		56	14	.39¾			13	.48¾			11¾	.38½			11½
5	.43¾		74	18½	.41		56	14	.40			13												
6																								
7																								
8																								
9																								
10																								
Ave.				18.00				14.58				13½				13				11¾				11½
%				72.2				58.3				54				52				47				46

ORDER NO. 52 Edison #98



P. Loop unmounted

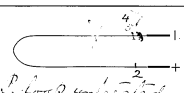
At 49 Candles. Test Started 10.18 p.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	99	.98	7.10 p.m. 1.21.96	12.55	1		78	.82¾
2	98	1.00½	8.10 p.m. 1.21.96	13.55	3		75½	.81½
3	98	1.01	6.30 p.m. 1.21.96	12.15	2		79	.82
4	97	.99½	11.15 a.m. 1.25.96	[illegible]	4		75	.81
5	97	.99¾	4.45 p.m. 1.28.96	74.50	5		77½	.81
6								
7								
8								
9								
10								
Avg.	97.8	.99.6		36.43			78.2	.817

	Candles per H. P.
At 16 Candles.	187
At 49 Candles.	579

Put away in box

ORDER NO. 53 Edison 100



P. Loop unmounted

At 25 Candles. Test Started 10.15 p.m. 1.20.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108	.46	7.10 p.m. 1.21.96	12.55	1		99¼	.41½
2	111	.46	8 p.m. 1.23.96	45.45	3		103	.41
3	107¼	.48	10.15 a.m. 1.22.96	21.	2		98¾	.43
4	107	.44½	8.10 a.m. 1.28.96	108.55	5		99¼	.40¾
5	105	.46¼	11.10 a.m. 1.24.96	83.55	4		100	.41¾
6								
7								
8								
9								
10								
Avg.	108.25	.4615		30.30			100.2	.415

	Candles per H. P.
At 16 Candles.	256
At 25 Candles.	372

Put away in box

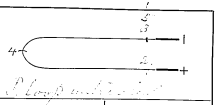
#101	10:20 p.m. 1-21-96				8:50 p.m. 1-22-96																			
	16.05				30.35																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	42 1/4			16 1/4	41			14																
2	42 3/4			17 1/4																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				16.87				14																
%				70.3				58.3																

#102	10:20 p.m. 1-21-96																							
	16.05																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	91 3/4		67.3	26 1/4																				
4	87 1/4		66.6	26																				
5	92 1/2		65.4	25 1/2																				
6																								
7																								
8																								
9																								
10																								
Ave.				25.5																				
%				64.4																				

ORDER No. 54 Edison # 101

At 24 Candles. Test Started 10.15 pm. 1.20.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	102	.45½	8.25 am. 1.23.96	35.10	5		96	.42
2	102½	.45½	5 pm. 1.22.96	21.45	4		96½	.42
3	103½	.46	10.55 pm. 1.20.96	.35	1		96½	.42
4	104½	.46	11.45 am 1.21.96	[illegible]	2		97½	.42
5	105	.45	2.25 pm. 1.21.96	5[illegible]	3		[illegible]	[illegible]
6								
7								
8								
9								
10								
Avg.	103.5	45.65		1[illegible]			96.9	.415



Sloan and [illegible]

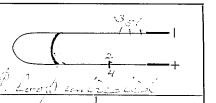
	Candles per H. P.
At 16 Candles.	2.94
At 24 Candles.	3.75

Put away in box ~

ORDER No. 55 Edison # 102

At 39 Candles. Test Started 10.15 pm. 1.20.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	80½	.97	9.35 pm. 1.21.96	18.20	2		70	.80½
2	80	.94	8.50 am. 1.21.96	3.35	1		69¼	.77½
3	80	.96	11.55 am. 1.22.96	22.40	3		69¼	.79
4	82½	.92½	1.25 pm. 1.22.96	23.05	4		71¼	.76
5	81	.98	3.35 pm. 1.22.96	25.20	5		70½	.81
6								
7								
8								
9								
10								
Avg.	80.8	.95.45		18—			701	.788



Sloan and [illegible]

	Candles per H. P.
At 16 Candles.	2.16
At 39 Candles.	3.77

Put away in box

#105	8.50 p.m. 1.22.96																								
600 L	16.20																								
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	47¾			15¾																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avc.				15⅞																				
%				55.6																				

ORDER No. 56 Edison #103

At $25\frac{3}{4}$ Candles. Test Started 8.30 p.m. 1.21.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	111	.47	3.40 p.m. 1.22.96	[illegible]	4	$102\frac{1}{2}$	.42
2	107	$.48\frac{3}{4}$	8.15 p.m. 1.22.96	15.05	5	99	$.43\frac{3}{4}$
3	$107\frac{1}{4}$	.46	9.35 p.m. 1.21.96	[illegible]	1	$99\frac{1}{2}$	$.46\frac{1}{2}$
4	$102\frac{1}{2}$	$.51\frac{1}{4}$	9.40 p.m. 1.22.96	[illegible]	3	$94\frac{1}{2}$	.46
5	108	$.46\frac{3}{4}$	10.50 p.m. 1.21.96	[illegible]	2	$99\frac{3}{4}$	[illegible]
6							
7							
8							
9							
10							
Avg.	107.15	.4795		7.15		99.05	.4365

Candles per H. P.

At 16 Candles. 286

At $25\frac{3}{4}$ Candles. 372

Put away in box

ORDER No. 57 Edison #105

At 24 Candles. Test Started 8.30 p.m. 1.21.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	95	$.51\frac{1}{4}$	5.5 p.m. 1.23.96	[illegible]	5		89	$.46\frac{3}{4}$
2	102	.47	3.05 p.m. 1.22.96	10.35	2		$95\frac{1}{2}$	.43
3	98	$.49\frac{1}{2}$	6.20 p.m. 1.22.96	13.50	3		$91\frac{1}{4}$	.45
4	$97\frac{1}{2}$	$.49\frac{1}{2}$	2.35 p.m. 1.22.96	10.05	1		$91\frac{1}{2}$	$.45\frac{1}{4}$
5	95	$47\frac{1}{2}$	8 p.m. 1.22.96	15.30	4		89	$.43\frac{1}{4}$
6								
7								
8								
9								
10								
Avg.	97.7	.489		15.43			$91\frac{1}{4}$	.447

Candles per H. P.

At 16 Candles. 293

At 24 Candles. 374

Put away in box

106 10.0 p.m. 1-22-96
17.30

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.42			17																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				17																				
%				73%																				

110 8.50 p.m. 1.22.96
16.20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.61		68.5	21 1/4																				
3																								
4	.60 3/4		65.3	20 3/4																				
5	.58 1/2		51.5	17																				
6																								
7																								
8																								
9																								
10																								
Ave.				19.83																				
%				62.4																				

ORDER No. 58 Edison # 106

At 23 Candles. Test Started 8.30 P.m. 1.21.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	101	.45	2.35 P.m. 1.23.96	26.05	3		95	.45½
2	101½	.44	9.20 P.m. 1.21.96	1.50	1		95½	.43½
3	113	.41	8.40 P.m. 1.21.96	[illegible]	2		107	.35
4	102	.44½	9.20 a.m. 1.22.96	5.50	3		95½	[illegible]
5	103½	.43	11.10 a.m. 1.22.96	[illegible]	4		[illegible]	[illegible]
6								
7								
8								
9								
10								
Avg.	104.2	.43.9		11.31			98.1	.40.35

Loop unbroken

	Candles per H. P.
At 16 Candles.	301
At 23 Candles.	335

Put away in box

ORDER No. 59 Edison # 116

At 31¾ Candles. Test Started 8.30 P.m. 1.21.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	101½	.63¾	9.25 a.m. 1.22.96	5.55	1		90¾	.54
2	96½	.65	8.15 P.m. 1.23.96	31.15	5		65½	.55½
3	100	.63	7.45 P.m. 1.23.96	18.15	2		89¾	.54
4	97	.65	6.20 P.m. 1.23.96	29.15	4		57	.56
5	103½	.61½	11.35 a.m. 1.23.96	24.05	3		92	.53
6								
7								
8								
9								
10								
Avg.	99.7	.635		21.22			88.8	.5445

Loop unbroken

	Candles per H. P.
At 16 Candles.	246
At 31¾ Candles.	37.1

Put away in box

Put away in box

# 107	9.20p.m. 1.23.96				9.45p.m. 1.24.96				11.45a.m. 1.27.96				2.15p.m. 1.28.96				1.35p.m. 1.29.96							
	23.30				39.55				56.55				74.25				89.45							
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.98½		62	25½	.95½		51.8	21½	.92½			18½	.95			19½	.94			18				
2	.98½		57.8	24	.96½		50.6	21	.94			17½	.94			18	.93½			17⅔				
3	.98½		60.1	25	.97		51.8	21½	.94			18½	.94½			18½	.93½			17				
4	1.00		54.5	22½	.99		49.4	20½	.95½			16½	.96½			16½	.95½			16				
5	1.00		67.5	25	1.00		55.4	23	1.04			19	1.05½			20½	1.05			19½				
6																								
7																								
8																								
9																								
10																								
Avg.				25.1				21½				17.95				18.6				17.55				
%				60.5				51.8				43.2				44.8				42.3				

ORDER No. 60 Edison #104

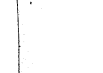
P loop untreated

At 25 Candles.			Test Started 9.15 a.m. 1.22.96				At 16 Candles.	
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	89	.55	8.20 a.m. 1.22.96	[illegible]	4		83	.50
2	89	.54	6.25 p.m. 1.22.96	[illegible]	2		83 1/4	.49
3	89	.56	3.45 a.m. 1.22.96	5.30	1		83	.50 1/2
4	91 1/2	.55	7.35 p.m. 1.22.96	[illegible]	3		85	.50
5	88 1/2	.57	9.20 p.m. 1.22.96	[illegible]	5		82 1/2	.51 1/2
6								
7								
8								
9								
10								
Avg.	84.5	.554		8.50			83.35	.502

	Candles per H. P.
At 16 Candles.	285
At 25 Candles.	375

put away in book

ORDER No. 61 Edison #107



P loop untreated

At 41 1/2 Candles.			Test Started 1.50 p.m. 1.22.96				At 16 Candles.	
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	80	102 1/2	10.20 a.m. 2.8.96	221.35	4		68 1/2	.83
2	79	102 1/4	8.40 a.m. 2.3.96	142.40	2		67 3/4	.83 1/2
3	80	102 3/4	9.25 a.m. 1.30.96	102.35	1		68 1/2	.83 3/4
4	76 3/4	105	8.50 p.m. 2.6.96	200.20	3		65 1/2	.84 3/4
5	77 3/4	111	9.20 a.m. 2.11.96	248.35	5		66 1/2	.90 1/2
6								
7								
8								
9								
10								
Avg.	78.7	104.7		182.21			67.35	.857

	Candles per H. P.
At 16 Candles.	208
At 41 1/2 Candles.	375

put away in book

175	8.25 p.m. 2.27.96				3.15 p.m. 5.18.96																			
	440				1398.50																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.44			9½	.40½			7																
2																								
3																								
4	.44			8¼	.40½			6¾																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				9.12				6.88																
%				29.6				22.4																

# 111	3 p.m. 1.24.96				11.05 a.m. 2.27.96				1.45 p.m. 1.28.96				11.40 p.m. 1.29.96				9 a.m. 2.28.96							
	19.30				42.35				60.15				75.10				434.05							
No.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.50¾		61.5	15½	.48¾			12¼	.48½			11½	.48			11¼	.42			6¾				
3	.48		60.4	14½	.46			10																
4	.49		62.5	15	.46¾			10¾	.46½			10½	.46			10								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				14.91				11				11				10.625				6.75				
%				62.2				45.8				45.8				44.3				28.1				

Time / Sec.	9.20 P.m. 1.23.96				9 p.m. 1.24.96				10.05 a.m. 1.27.96				11.15 a.m. 1.28.96				10.40 a.m. 1.29.96				1.45 p.m. 2.5.96			
	21.20				27.				54.05				70.15				85.40				176.20			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51		63.4	19½	.50		.66	17½	.48½				.15	.48½			14¼	.47½			12½	46¾		11¼
2																								
3	.58¼		86.3	26½	.54		79.5	24½	.52¼				.20	.51			19¼							
4	.51½		55.3	17	.50		.47	14¾	.48½				12½	.48½			12	.48			12	47		10
5	.58		82.1	25¼	.56¼		.75	24	.55				21½	.54			20	.53¼			19¾			
6																								
7																								
8																								
9																								
10																								
Mean			22.06				20.19					17¼				16.37				14.75				10.62
%			77.7				65.6					56.1				53.2				48				34.5

ORDER NO. 62 I.F. Co

Bamboo

P. loop untreated

At 30¾ Candles. Test Started 4 pm. 1.22.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	107¾	.55	Left on 1.30 pm. 10.2.96	2324.55			96	.48
2	108	.55	9.15 am. 1.23.96	16.55			95¾	.48½
3	108	.55¾	9.25 am. 1.29.96	84.25	2		96 1/16	.44½
4	110	.55½	6.50 pm. 6.5.96	1607.05	4		97¼	.47½
5	108¼	.55	4.40 pm. 2.4.96	163.30	3		96½	.52
6								
7								
8								
9								
10								
Avg.	1084	.56		538.07			96.4	.4915

	Candles per H. P.
At 16 Candles.	351
At 30¾ Candles.	378

Page 2

ORDER NO. 63 Edison #11

P. loop untreated

At 24 Candles. Test Started 10 30 am 1.23.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		Volts.	Amperes.
1	96	.48	4 pm. 1.23.96	~~5.15~~	1		89½	.44
2	88	.54½	11.30 am. 2.29.96	451.20	5		82	.50
3	90½	.53	3.35 pm. 1.27.96	46.05	3		85	.45½
4	90	.53	11.25 am. 2.19.96	333.30	4		84¾	.49
5	92	.51	4.40 pm. 1.23.96	5.10	2		86¾	.46½
6								
7								
8								
9								
10								
Avg.	91.3	.5785		168.07			85½	.476

	Candles per H. P.
At 16 Candles.	223
At 24 Candles.	377

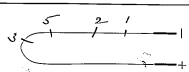
Put away in book

#113 1000 L.	1.40 p.m. 1.24.96				10.05 a.m. 1.27.96				11.15 a.m. 1.28.96				11.40 a.m. 1.29.96											
	18.10				41.35				58.45				75.10											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.57		61.8	19	.55½			13	.54			11½	.53			10½								
2	.57		58.9	17½	.56½			15½																
3	.56		58.5	18	.56½			14½				13												
4	.57½		50.4	15½	.56½			16	.54			13½	.53½			13								
5	.55¾		44.6	14																				
6																								
7																								
8																								
9																								
10																								
Ave.				16.8				14.875				12.5				11.75								
%				50.6				48.4				40.6				38.2								

LP² 1000 L.	3.15 p.m. 6.18.96																							
	1287.25																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.45½			8½																				
2	.45½			9½																				
3	.50½			10																				
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				9.33																				
%				58.3																				

Date	1.40pm. 1.24.96				10.50a.m. 1.27.96				11.15a.m. 1.28.96				10.40a.m. 1.29.96				1.45p.m. 2.5.96				8.25pm 2.27.96			
Time	18.10				41.35				58.45				74.10				164.50				428.30			
No.	A	R	%M	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.56			16 2/4	.57			16	.57			16 2/4	.57			15 2/4	.56 1/4			15 2/4	.54			13 2/4
2	.55 2/4			16 2/4	.55 2/4			16	.56			16	.56			16 2/4	.55 3/4			16	.52			13 2/4
3	.60			16	.49			16 3/4	.60 2/4			15 2/4	.60 2/4			15 2/4	.60			15 2/4	.58			14 2/4
4	.56 2/4			15 2/4	.56 2/4			18	.56 2/4			15 2/4	.56 2/4			15 2/4	.54 3/4			13 2/4				
5	.57 2/4			17 2/4	.57 2/4			16 3/4	.57 3/4			16 2/4	.57 2/4			16 2/4	.57			16	.54			13
6																								
7																								
8																								
9																								
10																								
Ave.				16.35				16.7				16.				15.9				15.3				13.94
%				152				101				100				99.4				95.6				84

ORDER No. 64 Edison #113



At 30 3/4 Candles. Test Started 10.30 a.m. 1.23.96 At 16 Candles.

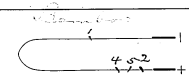
P. Loop untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	95	.65	10.45 p.m. 1.30.96	101.45	4		85	.55 1/4
2	94 1/4	.64 3/4	6.45 p.m. 1.27.96	49.15	3		85	.56 1/2
3	94 1/4	.66	2.40 p.m. 1.27.96	25.10	2		84 1/4	.56 1/2
4	94	.64 1/4	3.35 p.m. 2.1.96	126.05	5		84 1/4	.55
5	96	.64 1/2	8.40 p.m. 1.24.96	2.10	1		[illegible]	[illegible]
6								
7								
8								
9								
10								
Avg.	94 3/4	.649		69.29			84.95	.555

	Candles per H. P.
At 16 Candles.	251
At 30 3/4 Candles.	372

Lost-away in book

ORDER No. 65 L.F. A



At Candles. Test Started 10.30 a.m. 1.23.96 At 16 Candles.

P. Loop treated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			8 a.m. 10.22.96	2424	4		98 1/4	.56 3/4
2			9.30 p.m. 7.1.96	1788.50	3		100 1/4	.55
3	Fallen down		9.30 p.m. 11.13.96	2639			97 1/4	.59
4			9.25 a.m. 2.27.96	420.30	1		96	.56 1/4
5			10.50 p.m. 4.13.96	920.50	2		100 1/4	.56 3/4
6								
7								
8								
9								
10								
Avg.				1638.38			98.4	.5685

	Candles per H. P.
At 16 Candles.	212
At Candles.	

ITB 400 L.	3.15 pm 5.18.96 1287.25																											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.35			6½																				
2																								
3																								
4	.40½			7½																				
5	.35½			6½																				
6																								
7																								
8																								
9																								
10																								
Ave.				6.75																				
%				42.2																				

ITB 400 L.	8 a.m. 1.24.96 10.05				9 pm 1.24.96 21.05				3 pm. 1.25.96 31.05				4 pm 1.27.96 41.05				9 am. 1.28.96 51.05				10.40 am. 1.29.96 68.45			
No.	A	R	%	C.P.	A	R	%	C.P.	A	R	%	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.55		98.3	30	.54		85.5	27	.53		80.3	24½												
2	.59		94.2	28¾	.58½		85.2	26	.58		78.7	24	.57½			19¾	.57			21¾	.56½			21
3	.54½		97.5	29¾	.53		86.9	26½	.52		81.1	24¾	.50½			21½	.50			20½				
4	.54		94.3	28¾	.53		87.7	26¾	.52		77.9	23¾	.51½			22¾	.51			21¾	.48½			18
5	.55		92.1	29	.54		85.2	26	.53		77	23½												
6																								
7																								
8																								
9																								
10																								
Ave.				29¼				26¾				24.1				21.16				21.33				19.5
%				95.9				86.7				79				69.9				69.9				63.9

J.T.P.	1.40 p.m. 1.24.96				10.05 a.m. 1.27.96				11.15 a.m. 1.28.96				10.40 a.m. 1.29.96				1.45 p.m. 2.5.96				8.25 p.m. 2.27.96			
	18.10				41.35				38.45				74.10				164.50				428.30			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.44½			16	.44			15	.44¼			15¾	.43¾			15	.42¾			14	.38			10½
2	.47			17	.43½			12¼	.43			11¾	.42¾			11¼	—			—				
3	.48¾			18¼	.39½			14¾	.48			15½	.47½			15¾	.44¾			12½	.40			9¾
4	.46½			15¼	.47¾			15	.48			14	.47½			14	.46			11½	.43			9
5	.47			17	.46¾			16¼	.46½			16	.46¼			16½	.44			13½	.39			9¼
6																								
7																								
8																								
9																								
10																								
Avg.				16.4				14.65				14.6				14.5				12.87				9.7
				1002				91.5				92.2				90.6				80.5				60

1388.431 | 97.059.467

ORDER No. 66 L.F. P

Diagram

2 3 1 +

At Candles. Test Started 10.30 a.m. 1.23.96 At 16 Candles.

P. Loop unbroken

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1		Fallen down 1.30 p.m. 10.2.96		2234.05			95½	.43½
2		3.40 p.m. 1.30.96		94.10	1		99½	.48
3		7.50 p.m. 3.11.96		562.25	2		96½	.47½
4		Fallen down 1.30 p.m. 10.2.96		2234.05			97½	.48½
5		10 p.m. 7.3.96		1818.50	3		97½	.46
6								
7								
8								
9								
10								
Avg.				1388.43			97.05	.467

Candles per H. P.

At 16 Candles. 252

At Candles.

ORDER No. 67 L.F. I

Diagram

1 + 1

At 30½ Candles. Test Started 2.55 p.m. 1.23.96 At 16 Candles.

P. Nat. Bank unbroken

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	110	.55	3.15 p.m. 1.27.96	41.20	2		96¾	.49
2	108¼	.59	1.35 p.m. 1.31.96	102.44	5		95½	.52
3	110	.54¾	10.10 p.m. 1.28.96	63.15	3		96½	.48
4	108¼	.54½	11.10 p.m. 1.29.96	69.15	4		95	.48
5	109½	.55	2.25 p.m. 1.27.96	40.[illegible]	1		96	.45½
6								
7								
8								
9								
10								
Avg.	109.2	.5566		63.25			95.9	.491

Candles per H. P.

At 16 Candles. 253

At 30½ Candles. 375

2 3 & 4 put away in box
155 Edison

#57	10.25 a.m. 2.5.96																								
ado.	66.25																								
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.64			21½																					
2	.63			16½																					
3	.62			17½																					
4	.59¾			16																					
5																									
6																									
7																									
8																									
9																									
10																									
Ave.				17¾																					
x				54.3																					

#59	10.25 a.m. 2.5.96				8.25 p.m. 2.27.96																			
	66.25				326.55																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.62			17¾																				
2	.62			18	.56½			11																
3	.60½			21	.55			11½																
4	.60½			21½	.55			12¾																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19.56				11.58																
x				62.1				36.8																

#37	10.35pm. 1.30.96				1.10pm. 1.31.96				8.25pm. 1.31.96				5.05pm. 2.1.96				4.45pm. 2.3.96				10am. 2.4.96			
	5.				11.35				18.50				31.00				40				50.15			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.66 4/7			32 1/2	.66			28 4/7	.65 4/7			26	.64 1/2			22 1/2	.64			22	.64 1/2			22 3/7
2	.67 4/7			33	.66 3/7			28 1/2	.65 3/7			24 1/2	.65			21	.64 1/2			20	.64			18 1/2
3	.66			33	.65			28 1/2	.64 4/7			24 1/2	.63 3/7			22	.64 1/7			20 2/7	.62 2/7			19
4	.63 1/2			31	.63			26	.62			23 1/2	.61			19 4/7	.60 1/2			18 1/2	.60			17
5																								
6																								
7																								
8																								
9																								
10																								
Avc.				32.37				27.81				24.62				21.19				20.31				19.31
%				99.1				85.1				75.5				64.9				62.2				59.1

#37	10.35pm. 1.30.96				1.10pm. 1.31.96				8.25pm. 1.31.96				5.05pm. 2.1.96				4.45pm. 2.3.96				10am. 2.4.96			
	5.				11.35				18.50				31.00				40				50.15			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.66			32	.65			28	.64 4/7			25 3/7	.63 1/2			22	.63			21	.62 1/2			19
2	.65 4/7			32	.64 3/7			28	.64			26	.63 1/2			22	.63			20 3/7	.62			19 1/2
3	.63			31	.62 4/7			28	.61 4/7			24 3/4	.61			21 1/2	.61			21 1/2	.60 2/7			21
4	.62 4/7			30	.62			27 1/2	.61 4/7			25	.61			22	.60 4/7			21 1/7	.60 2/7			21 1/2
5																								
6																								
7																								
8																								
9																								
10																								
Avc.				31 4/7				27.57				25.37				21.87				21.12				20.31
%				99.2				88.5				80.5				69.5				67				64.5

ORDER No. 68 Edison # 37A

At $32\frac{2}{3}$ Candles. Test Started 5.35 p.m. 1.30.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life minutes	Order of breaking.	Volts.	Amperes.
1	$99\frac{1}{4}$	$.66\frac{3}{4}$	5.35 p.m. 2.12.96	152.35	1	88	.57
2	$95\frac{3}{4}$	.67	8.50 p.m. 2.18.96	224.20	3	85	$.57\frac{1}{2}$
3	98	$.66\frac{3}{4}$	5.55 p.m. 2.26.96	311.25	4	87	.57
4	100	.64	8.35 a.m. 2.14.96	174.35	2	89	$.54\frac{3}{4}$
5							
6							
7							
8							
9							
10							
Avg.	98.25	.661		215.44		87.25	.566

P. Loop untreated

	Candles per H. P.
At 16 Candles.	242
At $32\frac{2}{3}$ Candles.	375

Put away in box

ORDER No. 69 Edison 37B

At $31\frac{1}{2}$ Candles. Test Started 5.35 p.m. 1.30.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life minutes	Order of breaking.	Volts.	Amperes.
1	97	$.65\frac{1}{4}$	9.20 a.m. 2.20.96	244.50	1	$86\frac{1}{4}$	.56
2	97	$.65\frac{1}{2}$	10.35 p.m. 3.5.96	409.35	2	$86\frac{1}{4}$	.56
3	$98\frac{3}{4}$	$.63\frac{1}{2}$	8.48 a.m. 3.21.96	580.45	4	88	$.54\frac{1}{4}$
4	$99\frac{1}{4}$	.63	8.45 a.m. 3.6.96	412.45	3	89	.54
5							
6							
7							
8							
9							
10							
Avg.	98	64.31		411.57		87.37	.551

P. Loop untreated

	Candles per H. P.
At 16 Candles.	248
At $31\frac{1}{2}$ Candles.	372

Put away in box.

#37 e

	10.25am 2.5.96				8.25pm 2.27.96																			
	66.25				326.55																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.58½			17½	.52½			11½																
2	.60½			19																				
3	.60			19	.54			11¾																
4	.57			17																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18.12				11.62																
%				58.9				37.8																

#37 D

	10.25am 2.5.96				8.25pm 2.27.96																			
	66.25				326.55																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.59½			16½	.54			10½																
2	.61			18¼	.55			10																
3	.61½			18¼																				
4	.61			20½	.55			12																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18.44				10.8																
%				55.5				34.3																

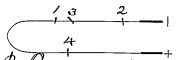
37 a 10.35 p.m. 1.30.96 | 7.10 p.m. 1.31.96 | 8.25 p.m. 1.31.96 | 5.05 p.m. 2.1.96 | 4.45 p.m. 2.3.96 | 10 a.m. 2.4.96

No.	5. A	R	V	C.P.	11.35 A	R	V	C.P.	18.50 A	R	V	C.P.	31.30 A	R	V	C.P.	40 A	R	V	C.P.	50.15 A	R	V	C.P.
1	.61 3/4			20 3/4 .61 1/4				27 1/2 .60 1/2				24 1/2 .60				22 1/2 .59 1/4				20 1/2 .59				19
2	.64			31 .64				32 .63 1/2				31 .60				29 .62				25 1/4 .61 1/4				22
3	.63 3/4			30 1/4 .63				30 1/2 .62 1/4				28 1/2 .62				28 .61				24 3/4 .60 3/4				22
4	.64			29 1/4 .60				26 .59 1/4				23 1/4 .59				21 1/2 .58 1/2				20 .57 1/4				18
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				30.06				28.94				26.81				25.25				22.62				20.4
%				97.8				94.1				87.1				82.1				73.5				65.8

37 b 10.35 p.m. 1.30.96 | 1.10 p.m. 1.31.96 | 8.25 p.m. 1.31.96 | 5.05 p.m. 2.1.96 | 4.45 p.m. 2.3.96 | 10 a.m. 2.4.96

No.	5 A	R	V	C.P.	11.35 A	R	V	C.P.	18.50 A	R	V	C.P.	31.30 A	R	V	C.P.	.40 A	R	V	C.P.	50.15 A	R	V	C.P.
1	.63 1/2			30 1/2 .63				28 .62 1/4				25 .61 1/4				27 1/2 .61				19 3/4 .60				18
2	.64			31 1/2 .64				32 .64				31 .64				29 .63				25 1/4 .62				21 1/2
3	.65			32 .65				32 .65				31 3/4 .65				30 1/4 .63 1/2				25 .62 3/4				21 1/2
4	.63			31 .62 1/2				28 1/2 .61 1/2				24 3/4 .61 1/4				23 .61				21 1/2 .61				21 1/2
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				31.25				30.12				28.12				28.69				23				20.62
%				99.2				95.6				89.2				81.5				73				65.5

ORDER NO. 70 Edison #37 C



P. Loop untreated

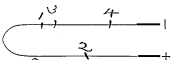
At $30\frac{3}{4}$ Candles. Test Started 5:35 p.m. 1.30.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$97\frac{3}{4}$	.63	4.25 p.m. 3.2.96	360.10	3		88	$.54\frac{1}{4}$
2	96	$.64\frac{1}{4}$	3.15 p.m. 2.24.96	278.45	1		86	.55
3	$96\frac{1}{4}$	.64	5.45 p.m. 3.26.96	642.15	4		$87\frac{1}{4}$	.55
4	$98\frac{1}{2}$	$.62\frac{1}{4}$	1.50 p.m. 2.25.96	308.20	2		$88\frac{1}{2}$	$.53\frac{1}{2}$
5								
6								
7								
8								
9								
10								
Avg.	97.1	.634		397.22			87.44	.544

	Candles per H. P.
At 16 Candles.	251
At $30\frac{3}{4}$ Candles.	372

Cut away in box

ORDER NO. 71 Edison #37 D



P. Loop untreated

At $31\frac{1}{2}$ Candles. Test Started 5:35 p.m. 1.30.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	98	$.63\frac{3}{4}$	1.30 p.m. 3.7.96	431.30	2		88	.55
2	$96\frac{1}{2}$	.64	8.20 p.m. 3.18.96	545.20	4		$86\frac{1}{2}$	.55
3	$96\frac{1}{2}$	.65	3.25 p.m. 2.18.96	219.55	1		$86\frac{1}{2}$	.56
4	99	.63	5.05 p.m. 3.13.96	489.05	3		88	.54
5								
6								
7								
8								
9								
10								
Avg.	97.5	.639		421.27			87.25	.55

	Candles per H. P.
At 16 Candles.	248
At $31\frac{1}{2}$ Candles.	375

Cut away in box.

I.P.I.	5.20pm. 23.9.96				10.30am. 2.4.96				10.25am. 2.5.96				8.25pm. 2.27.96				3.15pm. 5.18.96							
	10				20.50				36.30				1297				1155.55							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49 2/7			16	.49 2/7			16	.50			15 2/7	.47			13 1/7	.45			10				
2	.49			15	.47			15	.49			15	.47 1/2			13	.45			9 3/7				
3	.48 3/7			16	.48 1/2			15 3/4	.48 3/7			15 1/7	.45			13								
4	.49			15 1/2	.49			16	.49			15	.45			11								
5	.47 1/2			15 1/2	.47 3/7			16	.48 1/2			16	.45			14 1/7								
6																								
7																								
8																								
9																								
10																								
Ave.				15.6				15.75				15.41				12.9				9.88				
%				101				102				99.3				83.2				63.7				

ORDER NO. 72 Edison #95 A

At 55 Candles. Test Started 3.30 p.m. 2.1.96 At 16 Candles.

V. Proof untreated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	Broken on Photo:						85	.81 3/4
2	105	.106	8.45 a.m. 2.3.96	3.05	3		85 1/2	.82
3	105	.104 1/2	9.20 a.m. 2.3.96	3.40	4		85 1/2	.80 1/2
4	107	.103 3/4	3.55 p.m. 2.1.96	.25	1		86 1/4	.80
5	108	.103	6 p.m. 2.1.96	2.30	2		87	.79
6								
7								
8								
9								
10								
Avg.	106.4	1043		2.25			85.45	80.65

	Candles per H. P.
At 16 Candles.	173
At 55 Candles.	370

Returning to lab

ORDER NO. 73 L.F. F

3W

At 15 1/2 Candles. Test Started 3.30 p.m. 2.1.96 At 16 Candles.

P. Oral Spirit

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	94 1/4	.49 1/2	Fallen down	2082.—			95	.50
2	95	.49	1.30 p.m. 10.2.96	2082.—			95 1/2	.49 1/2
3	94	.49	8.25 a.m. 4.8.96	723.25	3		94 1/4	.49
4	94 1/4	.49	1.34 p.m. 2.28.96	304.10	1		95	.49 1/2
5	95 1/4	.47 1/2	5.55 p.m. 3.12.96	445—	2		96	.48
6								
7				147 2.35				
8				490 0.55				
9								
10								
Avg.	94.55	.488		1127.55			95.15	.492

	Candles per H. P.
At 16 Candles.	254
At 15 1/2 Candles.	251

Pulses	5.20 p.m. 2.3.96				10.30 a.m. 2.4.96				10.25 a.m. 2.5.96				8.25 p.m. 2.27.96				3.15 p.m. 5.18.96							
	9.05				19.45				35.25				298.55				1154.50							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.42½			16¾	.42½			16¾	.42¼			16	.38			12½	.30½			6				
2	.43¾			16	.44			16¼	.43¾			15½												
3	.45			18	.45			17¾	.44¾			18												
4	.41¼			15¼	.41¼			15½	.41¼			15												
5	.42½			17	.42½			16½	.42½			16	.37			12¼	.30¼			5¼				
6																								
7																								
8																								
9																								
10																								
Ave.				16.6				16.55				16.1				12.38				5.63				
%				107				107				104				79.9				36.3				

Pulses	5.20 p.m. 2.3.96				10.30 a.m. 2.4.96				10.25 a.m. 2.5.96				8.25 p.m. 2.27.96											
	10-				20.30				36.40				297											
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.44			17	.44			17	.43¾			16½												
2	.44½			16½	.44			16	.44			15½	.40			14								
3	.44			16¾	.44			16¾	.44¼			17												
4	.43½			16	.43½			16	.43½			16	.40			13¾								
5	.44			16½	.44			16½	.44			16¼	.40			14								
6																								
7																								
8																								
9																								
10																								
Ave.				16.5				16.45				16.3				13.92								
%				101				101				99.9				85.2								

ORDER No. 74 Packard

3 W

At 15½ Candles. Test Started 4.25 pm. 2.1.96 At 16 Candles.

Spiral treated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107½	.42¼	3.20 pm. 6.18.96	1495.15	4		108	.43
2	106½	.43½	9.10 am 2.19.96	198.40	2		107¼	.43¾
3	108½	.45¾	10.50 am. 2.14.96	145.50	1		109	.45¾
4	107½	.41¼	11.25 am. 2.27.96	289.55	3		108¼	.41½
5	108½	.41¼	Talks down 1.30 pm. 10.2.96	2050.55			109	.41¾
6								
7								
8								
9								
10								
Avg.	107.7	.428		542.07			108.3	.4315

	Candles per H. P.
At 16 Candles.	254
At 15½ Candles.	251

ORDER No. 75 Columbia

OC 3 W.

At 16⅓ Candles. Test Started 3.30 pm. 2.1.96 At 16 Candles.

Spiral treated

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111¾	.44	4.15 pm. 2.18.96	190.50	1		111½	.43
2	112¼	.44¾	5.20 pm. 3.10.96	414.25	3		111½	.44¾
3	111	.44	4.30 pm. 2.27.96	295.05	2		110½	.44
4	111¼	.43¾	5.50 pm. 3.11.96	429.55	4		111	.43½
5	112½	.44	8.40 am 4.8.96	723.40	5		112	.43¾
6								
7								
8								
9								
10								
Avg.	111.75			410.47			111.3	.437

	Candles per H. P.
At 16 Candles.	245
At 16⅓ Candles.	247

Put away in box

37B 1500 L.	2 p.m. 2.3.96				11 a.m. 2.4.96																			
	7.20				21.20																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	70½			34	.69½			32																
2	.64½			28½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				29.87				32																
%				86.2				92.3																

37B 0 L.	2 p.m. 2.3.96				11 a.m. 2.4.96				10.25 a.m. 2.5.96					8.25 p.m. 2.27.96										
	7.20				21.20				36.30					297										
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.61			28	.60			22½	.59			20	.54			12								
2	.60½			28½	.64½			23	.63			19½												
3	.65			29½	.63½			22½	.63			20½												
4	.57½			21½	.64			23	.63½			20½												
5	.62½			27½	.61½			22	.60½			19½												
6																								
7																								
8																								
9																								
10				26.25																				
Ave.				27.5				22.65				20.05				12								
%				84.9				71.3				63.1				37.8								

ORDER No. 76 Edison #37 E

At $34\frac{2}{3}$ Candles. Test Started 3.30 p.m. 2.1.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$98\frac{3}{4}$	$.70\frac{3}{4}$	8.50 a.m. 2.5.96	34.55	3		86	.59
2	104	$.66\frac{1}{2}$	8.15 a.m. 2.4.96	18.35	2		91	.56
3	$103\frac{1}{2}$	$.70\frac{3}{4}$	8.30 a.m. 2.3.96	2.50	1		89	$.58\frac{1}{2}$
4								
5								
6								
7								
8								
9								
10								
Avg.	102.08	.693		18.47			88.4	.578

P. Pop untreated

	Candles per H. P.
At 16 Candles.	233
At $34\frac{2}{3}$ Candles.	364

Put away in box

ORDER No. 77 Edison #37 F

At $31\frac{3}{4}$ Candles. Test Started 3.30 p.m. 2.1.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$98\frac{1}{2}$	$.62\frac{3}{4}$	9.55 p.m. 3.10.96	418	5		$88\frac{1}{4}$	.54
2	96	.67	4.10 p.m. 2.25.96	264.45	4		85	$.56\frac{1}{4}$
3	$96\frac{3}{4}$	$.66\frac{3}{4}$	2.30 p.m. 2.17.96	174.35	2		86	.57
4	$96\frac{1}{4}$	.67	9.30 p.m. 2.10.96	95.35	1		$85\frac{3}{4}$	.57
5	98	$.64\frac{1}{2}$	3.55 p.m. 2.24.96	249.30	3		$87\frac{1}{4}$	.55
6								
7								
8								
9								
10								
Avg.	97.1			240.25			86.45	.5585

P. Pop untreated

	Candles per H. P.
At 16 Candles.	246
At $31\frac{3}{4}$ Candles.	371

Put away in box

#37 H wt L.	2 p.m. 2.3.96				11 a.m. 2.4.96				10.25 a.m. 2.5.96				8.25 p.m. 2.27.96											
	7.20				21.20				36.30				297											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.64			28½	.63			23½	.62			20¼	.57			12¼								
2	.64¼			28½	.62½			22½	.62			20												
3	.64			29½	.65			24½	.648			21¼												
4	.64			28½	.63			23	.62			20¼	.56			12								
5	.65½			32¼	.63			30¾	.63¼			30	.55			12½								
6																								
7																								
8																								
9																								
10																								
Ave.				29.45				24.8				22.45				12.25								
%				92				77.5				70.1				38.3								

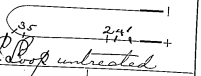
Put away in box

#37 I wt L.	2 p.m. 2.3.96				9.40 a.m. 2.4.96				10.25 a.m. 2.5.96				10.45 p.m. 2.14.96											
	7.20				20.				36.50				156.50											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.65			29	.63¼			23¼	.62			20¼												
2	.62½			32	.61¼			21½	.61			30	.56			16¼								
3	.62			25¼	.61½			21½	.60½			19½												
4	.66¼			30½	.56½			19¼																
5	.63½			28¾	.60½			22	.61			21												
6																								
7																								
8																								
9																								
10																								
Ave.				29.2				23.55				22.67				16¼								
%				59.8				72.4				69.8				50								

ORDER No. 78 Edison #37 H

At 32 Candles. Test Started 3.30 p.m. 2.1.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	97½	.65¾	5.50 p.m. 3.5.96	376.10	4		86½	.56
2	97¾	.65¼	9.50 p.m. 2.24.96	254.25	1		87¼	.56
3	97¼	.67¼	5.20 p.m. 2.27.96	295.55	2		86½	.57
4	98¼	.65¾	1.30 p.m. 3.11.96	425.35	5		87¼	.56
5	99	.64	7.30 a.m. 3.5.96	366.50	3		88	.54
6								
7								
8								
9								
10								
Avg.	97.95	.656		343.47			87.1	.558



J. Loop untreated

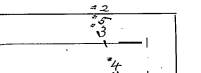
	Candles per H. P.
At 16 Candles.	245
At 32 Candles.	371

Put away in box

ORDER No. 79 Edison #37 I

At 32½ Candles. Test Started 3.30 p.m. 2.1.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	96¼	.67½	9.30 a.m. 2.13.96	129.35	4		85	.57
2	99½	.63¾	4.55 p.m. 2.18.96	191.30	5		88	.54
3	100¼	.67½	5.15 p.m. 2.5.96	40.50	2		89	.57
4	97	.65	8.30 p.m. 2.4.96	29.50	1		90	.55
5	97½	.66½	3.15 p.m. 2.6.96	51.35	3		87	.56¾
6								
7								
8								
9								
10								
Avg.	98.1	66.05		88.52			87.8	.559



J. Loop untreated

	Candles per H. P.
At 16 Candles.	243
At 32½ Candles.	374

Put away in box

#37	9.25 a.m. 2.4.96				1.20 p.m. 2.5.96				9 a.m. 2.28.96															
	10.05				28.05				298.25															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.64			27	.62½			20½																
2	.66			27½	.64			20½																
3	.64			27	.62½			20½																
4	.66½			27	.65			20½	.55			10												
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				27.19				20.44				10												
%				79.4				59.7				29.2												

#38	3.20 p.m. 2.5.96																							
	126.10																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.58			14																				
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				14																				
%				50																				

Date	10.45AM 5.16.96				3pm. 5.18.96				9.45am. 5.19.96				3pm. 5.20.96				2.35pm. 5.21.96				9.30am. 5.22.96			
Temp.	10.15				19.30				30 =				47.25				59.40				84.20			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	52¼		96	26.5	52			25				21	60			19½	59			18¾	59			16¾
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				26.5				25				21				19½				18¾				16¾
%				94.6				89.3				75				70				65.2				59.8

Wrong Reading

ORDER No. 80 Edison #37 G

At 34¼ Candles. Test Started 4.20 Pm. 2.3.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	99¼	.65¼	10.55 a.m. 2.25.96	256.20	3		87	.54¾
2	99½	.67	11.10 Pm. 2.12.96	128.05	1		87½	.56¼
3	99¾	.65¾	2.10 Pm. 3.4.96	355.20	4		87¾	.55¼
4	97¾	.68	10.45 Pm 2.19.96	207.10	2		86	.57¼
5								
6								
7								
8								
9								
10								
Avg.	99.06	.665		235.29			87.06	.584

P. loop untreated

	Candles per H. P.
At 16 Candles.	235
At 34¼ Candles.	387

Lost away wire

ORDER No. 81 Edison Special #1

At 28 Candles. Test Started 4.30 Pm. 5.15.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	96	.52½	5.55 Pm 5.27.96	128.45			88	.57
2								
3								
4								
5								
6								
7								
8								
9								
10								
Avg.				128.45				

P. loop

	Candles per H. P.
At 16 Candles.	266
At 28 Candles.	414

30 34 7817
40 7314
50

Sunbeam Wt. L.	2.40 p.m. 5.21.96				9.20 a.m. 5.23.96																			
	13.35				38																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			18 2/7	.50			18 2/7																
2	.49			17 2/7	.49			18 2/7																
3	.50			18 2/7	.50			19																
4	.49			18	.50			18 4/7																
5	.50			19 3/7	.50			19																
6																								
7																								
8																								
9																								
10																								
Avc.				18.4				18.75																
%				96.8				98.7																

Germ.	2.40 p.m. 5.21.96				9.30 a.m. 5.23.96				5.05 p.m. 7.1.96															
	13.35				38				449.35															
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.53 1/2			19 1/2	.52 1/2			17 2/7	.46			8 2/2												
2	.53			16 1/2	.53			17 2/7	.46			9 1/2												
3	.52 1/2			18 1/2	.54			17 4/7	.46			9												
4	.53			17 2/7	.53			18																
5	.62			18	.50			13 3/7	.47			10 1/7												
6																								
7																								
8																								
9																								
10																								
Avc.				18.05				17.3				9.37												
%				102				98.9				52.5												

ORDER No. 82 Sunbeam

3TK

At 19 Candles. Test Started 2.45 pm. 5.20.96 At 16 Candles.

Spiral

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	113	.50	5.30 pm. 6.12.96	254	1	110	.48
2	114½	.50	11.40 am. 8.28.96	566.35	5	111½	.48
3	113	.49	8.50 pm. 6.16.96	289.20	2	110	.47½
4	114	.49½	9.15 pm. 6.26.96	408.15	4	112	.48
5	116	.50	7.10 am. 6.18.96	305.40	3	113	.48
6							
7							
8							
9							
10							
Avg.	114.1	.497		364.46		111.3	.479

4 | 27.15 / 314.19 | 1

Subtract, 2 hrs

	Candles per H. P.
At 16 Candles.	224
At 19 Candles.	257

ORDER No. 83 German

3TK

At 17½ Candles. Test Started 2.45 pm. 5.20.96 At 16 Candles.

Spiral

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	103	.53	#1.2.3.5 Cable down 10.2.96			101	.50
2	102½	.52½	11.30 pm			101	.52
3	102½	.50				101	.50
4	101	.52	9.15 pm. 6.9.96	219.15	1	100	.51
5	101½	.52	"			100½	.50
6							
7							
8							
9							
10							
Avg.	102.1	.519				100.7	.506

Lung Cable Broke

	Candles per H. P.
At 16 Candles.	234
At 17½ Candles.	247

Bullock Red L. 2.40 p.m. 5.21.96 | 9.30 a.m. 5.23.96

13.35 | 38

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			14	.44			15																
2	.43			14 3/4	.43 1/2			13 1/4																
3	.42			11 3/4	.44			11 1/2																
4	.41			11 1/2	.41 5/8			11 3/4																
5	.41			12 3/4	.40			12 3/4																
6																								
7																								
8																								
9																								
10																								
Ave.				12.85				12.9																
%				78.7				78.4																

Bullock 2.40 p.m. 5.21.96 | 9.30 a.m. 5.23.96

13.35 | 38

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.43			16	.44			16 3/4																
2	.42 1/2			16 1/2	.43 1/2			16 1/2																
3	.43 1/2			16 3/4	.44			16 3/4																
4	.43			15 3/4	.43 1/2			16 3/4																
5	.43			15 3/4	.43 1/2			17																
6																								
7																								
8																								
9																								
10																								
Ave.	.43			16				16.75																
%				100				105																

ORDER No. 84 Buckeye

At 16 1/3 Candles. Test Started 2.45 p.m. 5-20-96 At 16 Candles.

Spiral

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. UNIFORM.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116	.42	5 p.m. 5-28-96	95.40	1		115 1/2	.40
2	116 1/2	.43					116	.42 1/2
3	116	.43	Taken down				115 1/2	.42 1/2
4	117 1/2	.44	1.30 p.m. 11/6/96	Incl. burning			117	.42 1/2
5	119	.42 1/2		Equivalent			118 1/2	.42
6								
7								
8								
9								
10								
Avg.	117	.429					116.5	.419

	Candles per H. P.
At 16 Candles.	245
At 16 1/3 Candles.	243

ORDER No. 85 Columbia

At 16 Candles. Test Started 2.45 p.m. 5-20-96 At 16 Candles.

Spiral

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. UNIFORM.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			1.25 p.m. 6.11.96	236.25	2		110	.43
2			10.40 a.m. 6.4.96	160.20	1		112	.43
3			4.05 p.m. 6.23.96	361.05	4		111	.44
4			4.35 p.m. 6.29.96	424.05	5		111 1/2	.43
5			9.55 p.m. 6.19.96	333.25	3		112	.43
6								
7								
8								
9								
10								
Avg.				303.04			111.3	.432

	Candles per H. P.
At 16 Candles.	248
At Candles.	

Put away in box

Sd. 42 Ex. 52	11.55 a.m. 5.20.96				2.35 p.m. 5.21.96				9.30 a.m. 5.23.96				3.20 p.m. 5.27.96				2.40 p.m. 6.1.96							
	10				24.15				43.50				85.50				128.15							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.62		55.5	27	.60		72.1	22 .60			64.7	19¾	.58½		50.8	15½ .58			47½	14½				
2	.60		95.1	29	.60		96.7	29½ .60			78.7	24	.59		61.5	18¾ .57½			52½	16				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.	.61		28		60		25.75				21.88				17.12				15¼					
%			91.8				84.4				71.7				56.2				50					

Ex. Sp. 52 Sd. 42	7.20 p.m. 9.25.96				10 a.m. 8.21.96				10 p.m. 8.28.96															
	20				31.40				60.05															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.62			20½	.61½			18½	—			—												
2	.69			24	.67½			20	.65			16½												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.12				19¼				16½												
%				60.7				52.7				45.2												

ORDER No. 86 Edison Special #2

At 30½ Candles. Test Started 3.05 Pm. 5.19.96 At 16 Candles.

P. Loop untreated.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	98½	.63	10.30 a.m. 6.5.96	180.20	1		89	.54
2	97¾	.62	9.35 a.m. 6.27.96	417.45	2		88½	.52½
3								
4								
5								
6								
7								
8								
9								
10.								
Avg.	98.12	.62½		299.02			88¾	.532

	Candles per H. P.
At 16 Candles.	253
At 30½ Candles.	372

ORDER No. 87 Edison Special #1 2/3

At 36½ Candles. Test Started 11.40 a.m. Aug 24 96 At 16 Candles.

Platinum loop untreated.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	104	.66	3.25 Pm. 8.28.96	54.30	1		91	.56
2	103½	.72	3.30 Pm. 9.1.96	80.05	2		90½	.60
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	103.8	.69		67.17½			90.62	.58

	Candles per H. P.
At 16 Candles.	226
At 36½ Candles.	380

I.T.Co	7.20 p.m. 8/28/96																							
	20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.55			30																				
2	.58			31																				
3																								
4	.57			29																				
5	.58			31																				
6																								
7																								
8																								
9																								
10																								
Ave.				30¼																				
%				87.7																				

#89	7.45 p.m. 9.9.96				10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96				8.30 p.m. 9.23.96			
I.T.Co	157.50				180.05				215.35				235.10				262.35				289			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.47			16¾	.46			15¼																
2	.52			17¼	.51			15¼	.51½			15	.51			15	.51			15½	.50½			15
3	.50			17	.50			15¼	.49			15	.48			15	.48			15¼	.47½			14¾
4	.48			—	—			—																
5	.47			16¼	.47			15½	.45½			14¾	.45			14¾	.46			15	.45			14¼
6																								
7																								
8																								
9																								
10																								
Ave.				16.85				15.56				14.91				14.75				15¼				14.67
%				99.1				91.5				87.7				86.8				89.7				86.5

LFH	7.20 p.m. 8/25/96				10.20 p.m. 8.26.96				10 p.m. 8.28.96				9.20 p.m. 9.1.96				10.40 a.m. 9.4.96				10 a.m. 9.8.96			
	20				32				60.05				85.05 C				117.15				135.35			
No.	A	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			22	.49			20 3/4	.49			20 1/4	.48			19 1/2	.47 1/2			18 3/4	.47			17
2	.52			21 1/4	.53 1/2			20 3/4	.53 1/2			20	.52 1/2			19	.52			18	.51			17
3	.50			20 3/4	.50 1/2			19 1/2	.51			20 1/4	.50			19 1/4	.50			18 1/2	.49 1/2			18
4	.50			22	.50			20	.50 1/2			20 1/4	.50			19	.50			17 3/4	.48			17 1/2
5	.48			22	.47 1/2			19 1/4	.48			18 1/2	.48			17 1/4	.47 1/2			16 1/4	.47			16 1/2
6																								
7																								
8																								
9																								
10																								
Ave.				21.6				20.05				19.95				18.9				17.85				17.2
%				127	!!!			118				117.4				111.2				105				101

ORDER No. 88 P. J. G.

At 34½ Candles. Test Started 11.40 a.m. 8.24.96 At 16 Candles.

Platinum loop treated Exhausted on Stem: Pump R.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	117	.57½	5.35 p.m. 8.26.96	27.15	2		102	.50
2	116	.59	7.30 p.m. 8.26.96	29.10	3		101	.52
3	120	.55	6.55 p.m. 8.25.96	19.35	1		104	.48
4	117½	.57½	10.50 a.m. 8.27.96	36.10	4		101	.50
5	119½	.57	5.00 p.m. 8.27.96	41.20	5		103½	.49
6								
7								
8								
9								
10								
Avg.	118	.572		30.42			102.3	.498

	Candles per H. P.
At 16 Candles.	234
At 34½ Candles.	381

ORDER No. 89 P. J. H.

At 17 Candles. Test Started 11.40 a.m. 8.24.96 At 16 Candles.

Stirrup loop treated - Exhausted on Stem: Pump R.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	107	.47½	4.05 p.m. 9.15.96	203.40	2		105½	.47
2	103	.51	Taken down 10.25.1.46	379.50			101½	[illegible]
3	105	.50	1.15 p.m. 9.30.96	352.05	3		103	.49
4	106	.50	3.30 p.m. 9.10.96	166.20	1		104½	.49
5	106¼	.47½	4.15 p.m. 10.1.96	368.35	4		103	.45
6								
7								
8								
9								
10								
Avg.	105.45	.492		294.06			103.4	.48

	Candles per H. P.
At 16 Candles.	240
At 17 Candles.	245

Date	9.20pm. 8.26.96				10pm. 8.28.96																			
Hour	20				49.05																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.66½			26½	.62½			19																
2	.60			18	.62½			18½																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23½				18½																
%				73.5				57.5																

Date	10.20pm. 8.28.96				9.30pm. 9.1.96																			
Hour	28.25				54.25																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.55			24½	.58			23																
2	.52			29½																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				28				23																
%				88.9				73																

ORDER No. 90 Ed. Special #1 3

At 31½ Candles. Test Started 11.20 a.m. 8.25.96 At 16 Candles.

Ploop. unbreakable

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.	Volts.	Amperes.
1	99¼	.65		62.25	1	88½	.55
2	96	.65		62.25		86½	.55
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	97.6	.65		62.25		87.5	.55

Taken down

	Candles per H. P.
At 16 Candles.	248
At 31½ Candles.	371

Taken down 8.20 a.m. 9/4/96.

ORDER No. 91 Sl. F. L.

At 31½ Candles. Test Started 10 a.m. 8.26.96 At 16 Candles.

Oval Spirit. Chem: Exhaust

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.	Volts.	Amperes.
1	114	.55	8.35 p.m. 9.3.96	79.30	2	100	48
2	115	.53	2.25 p.m. 8.29.96	34.20	1	101½	47
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	114½	.54		56.55		100¾	.475

	Candles per H. P.
At 16 Candles.	249
At 31½ Candles.	380

Put away in box

#92 Sec. 1½ 1000 L.	2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96				8.30 p.m. 9.22.96											
	181				200.40				228.05				254.35											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.46			12½	.45			13	.40			11¼	.40			11¼								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				12½				13				11¼				11¼								
%				41.9				44.9				38.5				38.5								

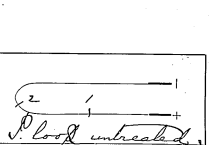
#93 Sec. 1½ 1000 L.	10.40 a.m. 9.1.96				8.30 p.m. 9.2.96				10.40 a.m. 9.4.96				9 a.m. 9.8.96											
	41.25				63.15				82.25				100.45											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.63			22½	—			—	—			—	—			—	—							
2	.64			22	.63			19½	.63			18½	—			—	—							
3																								
4																								
5	.64			25	.63½			22¾	.63½			21¾	.62			20	—							
6																								
7																								
8																								
9																								
10																								
Ave.				23.7				21.12				20.12				20								
%				85.8				78.2				74.8				74.1								

Date	10.40am. 9.1.96				8.30pm. 9.2.96				10.40am. 9.4.96				10am. 9.8.96				7.45pm. 9.9.96				10am. 9.12.96			
Stage	41.45				63.35				82.45				101.05				123.20				145.35			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			20¾	.49			17¼	.48			15½	.47			15½	.48			13¾	.46½			12¾
2	.50			20¾	.49			17¼	.48			15½	.47			15	.47			13	.46½			12¾
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20¾				17¼				15½				15¼				13.63				12¾
%				70.9				59				53				52.1				46.6				43.1

ORDER No. 92 Edison Spec #14

At 29¼ Candles. Test Started 9.10 p.m. 8.27.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	113	.50	4.30 a.m. 9.24.96	264.05			102½	.45
2	113	.50	3 p.m. 9.14.96	154.05	1		102½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113	.50		209.05			102½	.45



S. loop untreated

	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	386

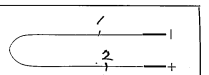
Put away in box

ORDER No. 93 Edison #43B

Formerly #38 38

At 27 Candles. Test Started 9.30 p.m. 8.27.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	123½	.65	7.55 p.m. 9.2.96	62.40	1		112	.58
2	124	.67	11.40 a.m. 9.4.96	83.25	2		113	.60
3							117¾	.62
4							117¾	.55
5	123	.65	3 p.m. 9.9.96	118.15	3		112	.58
6								
7								
8								
9								
10								
Avg.	123½	.657		88.07			114.4	.586



	Candles per H. P.
At 16 Candles.	178
At 27 Candles.	248

Put away in box

94
Lp II
1000 L. 26.10 9.30pm. 9.1.96 9pm 1

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.60			19½																				
2	.50			19¾																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19½																				
%				68.4																				

LP II
1000 L.

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
	440.30				490.30				550															
	8.30pm. 10.14.96				8.15pm. 10.20.96				9pm 10.26.96															
1	.40			12½	.41			11¾	.41			12												
2	.40			11¾	.40			11	.40			10¾												
3	–			–	–			–	–			–												
4	.40			11¾	.40½			11½	.40			11½												
5	.38			10¾	.38¾			10½	.38			10¾												
6																								
7																								
8																								
9																								
10																								
Ave.				11.56				11.12				11½												
%				72.3				69.5				70.3												

95 I.F.E.	8.35 p.m. 9.17.96 176				8.30 p.m. 9.21.96 203				8.30 p.m. 9.23.96 229.30				8.30 p.m. 10.2.96 327				8.15 p.m. 10.6.96 360.15				9 p.m. 10.9.96 396.15			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.42			15½	.42			14½	.42			14	.41½		89.1	14½	.41			13½	.40½			13½
2	.41			14½	.41			14½	.41			13½	.40		86.4	13½	.40			12	.40			11½
3	.41			15½	.41			14	.40½			14	.40		82.8	13½	.40			12½	.40			12½
4	.41½			14½	.41½			14½	.41			14	.40½		81.2	13	.40			13	.40			12½
5	.40			14½	.40			13½	.40			13	.40		78.1	12½	.40			12	.39			11½
6															Σ=1415.6									
7															82.1									
8																								
9																								
10																								
Avg.				14.86				14.15				13.7				13.3				12.5				12.3
%				92.8				88.4				85.6				83.1				78.1				76.9

#75 L.T.I=	9.30 p.m. 9.1.96				10.30 a.m. 9.4.96				8.30 p.m. 9.8.96				2.05 p.m. 9.10.96				10 a.m. 9.12.96				2 p.m. 9.16.96			
	26.30				57.30				85.30				105.20				120.30				156			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V.	C.P.
1	.43			16	.43			16½	.43			15½	.43			15½	.43			16	.42½			14¾
2	.43			16	.42½			15½	.43			14½	.43			15½	.43			15½	.42			14
3	.43			17	.43			17	.43			14½	.43			15½	.42½			16	.42			13½
4	.42½			16½	.42½			16½	.43			15½	.43			15½	.42½			16	.42			14½
5	.42			16½	.41½			14½	.42			14½	.41			15	.41½			16½	.40			14½
6																								
7																								
8																								
9																								
10																								
Ave.				16.3				16				15.05				15.35				16.05				14.25
%				101.9				100				94.1				95.9				100				89.1

ORDER No. 94. Ed. Spec. #15

At 28½ Candles. Test Started 9.50 p.m. 8.28.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110½	.51					100½	.45
2	110½	.51					100½	.45
3			Fallen down 10.40 p.m. 9.1.96					
4								
5								
6								
7								
8								
9								
10								
Avg.	110.5	.51		29.20			100.5	.51

	Candles per H. P.
At 16 Candles.	264
At 28½ Candles.	379

ORDER No. 95. P. J. J.

At Candles. Test Started 9.30 p.m. 8.28.96 At 16 Candles.

2.99 Watts

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	Fallen down		11.30 p.m. 11.9.96	671.45			112	.43⅓
2	d		11.30 p.m. 11.9.96	671.45			112½	.43⅓
3			5.25 p.m. 10.14.96	436.55	1		112	.43
4	Fallen down		11.30 p.m. 11.7.96	671.45			111½	.42
5			8.10 a.m. 10.25.96	575.55	2		113	.41
6								
7								
8								
9								
10								
Avg.							112.2	.426

P. Oral treated Carbons Chemical Reduct

	Candles per H. P.
At 16 Candles.	250
At Candles.	

*% 132	8 a.m. 9.21.96				8.30 p.m. 9.21.96				8.30 p.m. 9.23.96															
600 L	139				149.30				176															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4																								
5	$27\frac{1}{2}$			$8\frac{1}{2}$	$27\frac{1}{2}$			8	$27\frac{1}{2}$			$7\frac{3}{4}$												
6																								
7																								
8																								
9																								
10																								
Ave.				$8\frac{1}{2}$				8				$7\frac{3}{4}$												
%				50				47.1				48.6												

97	8.30 p.m. 9.23.96																							
186	176																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4																								
5	38			$9\frac{1}{2}$																				
6																								
7																								
8																								
9																								
10																								
Ave.				$9\frac{1}{2}$																				
%				38																				

Date	11.30 a.m. 9.5.96				3.30 p.m. 9.8.96				2.05 p.m. 9.10.96				10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96			
#132	18				32				51.50				67				102½				122.05			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.30			14																				
2	.30			13½	.30			11½	.29			10½	.29			9	.28			9				
3																								
4																								
5	.30½			13½	.30			11	.29			10½	.30			9½	.28			8½	.28			8¼
6																								
7																								
8																								
9																								
10																								
Ave.				13.7				11¼				10½				9¼				8¾				8¼
x				80.6				66.2				61.8				54.4				51.5				48.05

Date	10 a.m. 9.8.96				7.45 p.m. 9.9.96				10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96			
#136	22.30				44.45				67				102½				122.05				149.30			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.
1				—				—				—				—				—				—
2	.41			17¾	.40			15½	.39			14	.38			11½	—			—	—			—
3	.41			18	.40			15	.40			14½	.38			12	—			—	—			—
4	.41½			18	.40			14	.40			14	.39			11½	.38			12	—			—
5	.41			18	.40½			14	.40			13¾	.39			11½	.38			11	.37½			10
6																								
7																								
8																								
9																								
10																								
Ave.				17.94				14.62				14.06				11.69				11.5				10
x				71.8				58.5				56.2				46.7				46				41

ORDER No. #96 Ed. #132

At 17 Candles. Test Started 10.30 pm. 9.3.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	104⅓	.33	2.40 pm. 9.8.96	26.10	3	103	.33
2	103½	.35½	11.50 am. 9.17.96	114.20	4	102	.33
3	103	.32½	11.35 am. 9.4.96	5.05	1	102	.32
4	104	.32½	11.40 am. 9.4.96	5.10	2	102	.32
5	105	.33⅓	7.20 pm. 9.24.96	188.20	5	102½	.32½
6							
7							
8							
9							
10							
Avg.	104	.334		67.49		102.3	.32⅓

P. loop untreated

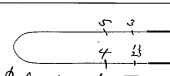
	Candles per H. P.
At 16 Candles.	360
At 17 Candles.	365

#1 Taken by Mr Edison

ORDER No. 97 Edison #136

At 25 Candles. Test Started 10.30 pm. 9.3.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	112⅓	.44	8.35 am. 9.8.96	21.05	1	105	.40
2	113	.44	7 pm. 9.16.96	106.30	2	104¼	.40
3	113¼	.45	8.50 am. 9.17.96	114.20	3	104	.40
4	111	.45	10.55 am. 9.18.96	125.55	4	103	.40½
5	110½	.44	10.30 am. 9.28.96	210.15	5	102¼	.41
6							
7							
8							
9							
10	~~112.05~~	~~.444~~					
Avg.	112.05	.444		115.01		103.7	.403



P. loop untreated.

	Candles per H. P.
At 16 Candles.	285
At 25 Candles.	375

Put away in box

Date	10 a.m. 9.8.96				7.45 p.m. 9.9.96				10 a.m. 9.12.96				9.16.96 8.35 p.m. 9.17.96											
#144	22.30				44.45				67				102½				122.05							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.43			17¼	.43			15½	.41½			14½	.46			12	.39			11¾				
2	.43			17½	.42			14¾	.41			13½	.40			11¼	.38			11½				
3	.43½			18	.42½			15	.41½			14.												
4	—				—																			
5	.43			17	—																			
6																								
7																								
8																								
9																								
10																								
Ave.				17.44				15.08				14				11.62				11.62				
%				69.8				60.3				56				46.5				46.5				

Date	2.05 p.m. 9.10.96				10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96				8.30 p.m. 9.23.96			
#8	120.05				36.15				70¾				90.20				117.45				144			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			22¾	.50			19	—			—												
2	.50			21½	.48			17½	.47			15¼	.46½			14¾	.45			12¾	.45			12½
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22½				18¼				15¼				14¾				12¾				12½
%				75				61.9				51.7				50				43.2				42.4

ORDER No. 98 Edison #144

At 25 Candles. Test Started 10.30 p.m. 9.3.96

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	108½	.46	4.30 p.m. 9.18.96	130.30	4		100	.41
2	109½	.46½	4.55 p.m. 9.18.96	130.55	5		100½	.41
3	110	.47	7.15 a.m. 9.15.96	82.45	3		101	.41
4	111	.47½	8.40 a.m. 9.8.96	21.10	1		101½	.42
5	111½	.48	7.55 p.m. 9.7.96	44.25	2		102½	.42
6								
7								
8								
9								
10								
Avg.	110.1	.47		81.57			101.1	.414

Letter from Grace by Lady

Put away in box

P. loop untreated.

	Candles per H. P.
At 16 Candles.	285
At 25 Candles.	360

ORDER No. 99 Edison Special #116

At 29½ Candles. Test Started 8.45 p.m. 9.8.96

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life (Minutes)	Order of Breaking.		At 16 Candles. Volts.	Amperes.
1	114	.51	10.55 a.m. 9.14.96	40.40	1		103	.45
2	114½	.51	8.15 p.m. 9.30.96	214.15	2		103½	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114¼	.51		127.27½			103¼	.45

Put away in box

P. loop untreated.

	Candles per H. P.
At 16 Candles.	257
At 29½ Candles.	378

100 Spec. 7/8 100	10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96				8.30 p.m. 9.23.96							
	21.45				57.15				76.50				104.15				130.45							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			20 1/2	.49			16 1/2	.47			14 3/4	.47			13	.47			13 1/2				
2	.50			20																				
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20 1/4				16 1/2				14 3/4				13				13 1/2				
%				70.4				57.4				51.3				45.2				46.9				

70 Spec. 7/8	10 a.m. 9.12.96				2 p.m. 9.16.96				8.35 p.m. 9.17.96				8.30 p.m. 9.21.96				8.30 p.m. 9.23.96							
	14.30				50				69.35				97				123.30							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51 1/2			24 3/4	.49			16 1/4	.48			16 1/4	.47			14	.47			13 1/4				
2	.51			24 1/4	—			—																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				24 1/4				16 1/4				16 1/4				14				13 1/4				
%				84.6				55.6				55.6				47.8				45.3				

ORDER No. 100 Edison Special #7

At $28\frac{3}{4}$ Candles. Test Started 8.45 p.m. 9.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$111\frac{1}{4}$	$.52\frac{1}{2}$	6.05 p.m. 9.24.96	141.50	2		$101\frac{1}{4}$	.45
2	$111\frac{1}{2}$	.52	5.05 p.m. 9.14.96	32.20	1		$101\frac{1}{4}$	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	111.38	$.52\frac{1}{4}$		87.05			$101\frac{1}{4}$	.45

Loop untreated

	Candles per H. P.
At 16 Candles.	262
At $28\frac{3}{4}$ Candles.	368

Put away in box

ORDER No. 101 Edison Special #8

At $29\frac{1}{4}$ Candles. Test Started 2.45 p.m. 9.10.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	$112\frac{3}{4}$	.52	6.30 p.m. 9.30.96	191.45	2		$102\frac{1}{4}$	.46
2	112	.52	1.20 p.m. 9.15.96	35.20	1		$100\frac{3}{4}$	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112.38	.52		113.32½			$102\frac{1}{2}$	$.45\frac{1}{2}$

Loop untreated

	Candles per H. P.
At 16 Candles.	259
At $29\frac{1}{4}$ Candles.	374

Put away in box

#102 Apr. 19	2 pm. 9.16.96				8.35 pm. 9.17.96																			
	34.05				53.40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50			18½	.49			17½	—			—												
2	.48			18½	.47			16½																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				18½				17																
%				60.7				55.7																

103 Sept. 18 1900	2 pm. 9.16.96				8.35 pm. 9.17.96				8.30 pm. 9.21.96				8.30 pm. 9.23.96											
	27				46.35				74				100.30											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	—			—																				
2	.50			21½	.49			22	.48			16	.47½			15								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.				21½				22				16				15								
%				77				74.6				54.2				50.8								

ORDER No. 102 Spec. #19

At 30½ Candles. Test Started 11.25 a.m. 9.12.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	110	.54	2.50 p.m. 9.18.96	60.25	1		101	.47
2	115	.52	4.10 p.m. 9.21.96	77.45	2		104	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112½	.53		69.05			102½	.46

1 2 —|— —|— —+

Loop untreated

	Candles per H. P.
At 16 Candles.	253
At 30½ Candles.	381

Put away in box

ORDER No. 103 Special 1 10

At 29½ Candles. Test Started 3 p.m. Sept. 14-96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	115	.52	6.40 p.m. 9.15.96	17.40	1		103½	.45
2	112	.53	7.30 p.m. 9.30.96	70.45	2		102	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113½	.52⅓		94.12½			102¾	.45

2 1 —|— —|— —+

Loop untreated

	Candles per H. P.
At 16 Candles.	258
At 29½ Candles.	369

Put away in box

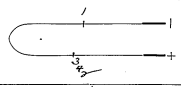
164B 2.30pm. 10.5.96 — 22.45 | 8.15pm. 10.6.96 — 41.45

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.36			14	.35			12½				—												
2	.35			12¾	.35			11¾																
3	.36			13¼	.35			11¾																
4	.36			13	.35			12																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				13¼				11.87																
%				63.1				56.5																

167B 10 am. 10.3.96 — 20 | 8.15pm. 10.6.96 — 46

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.32½			13	.32			11¾	—			—												
2	.32½			13	.31			10¾	—			—												
3	.32½		66.4	13½	.31			11	—			—												
4	.33			12½	.30			11	—			—												
5	.32			12½	.30			10	—															
6																								
7																								
8																								
9									10¾															
10				12.95				62.9																
Ave.				66.4																				
%																								

ORDER No. 104 Ed. 164B

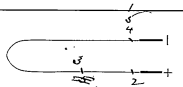


At 21 Candles.			Test Started 10.45a.m. 10/2/96				At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	106¾	.38	5.55p.m. 11.27.96	523.55	4		101½	.37
2	106	.38½	1.10p.m. 11.12.96	384.25	3		101¼	.37
3	108	.39	9.50a.m. 11.2.96	288.35	1		102¼	.37
4	108	.39	5.40p.m. 11.5.96	347.55	2		102¼	.37
5								
6								
7								
8								
9								
10								
Avg.	107.19	.386		386.12			101.81	.37

	Candles per H. P.
At 16 Candles.	317
At 21 Candles.	379

Sub away in box

ORDER No. 105 Ed. #167B



At 20⅓ Candles.			Test Started 6.30p.m. 10.1.96				At 16 Candles.	
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111½	.36	4.05p.m. 10.5.96	78.05	3		107	.34½
2	111	.36	12.45p.m. 10.10.96	88.45	4		108	.34½
3	111¼	.36	1.50p.m. 10.12.96	95.20	5		108	.34
4	112	.36	9.25p.m. 10.7.96	59.10	1		107½	.34
5	109½	.36	8.45a.m. 10.5.96	71.45	2		105¾	.34½
6								
7								
8								
9								
10								
Avg.	111.05	.36		78.37			107¼	.343

	Candles per H. P.
At 16 Candles.	324
At 20⅓ Candles.	379

Sub away in box

167 1000 L. 10 a.m. 10.3.96 — 20 | 8.15 p.m. 10.6.96 — 46

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.32			12 2/4	.30			10 2/4																
2	.32		71.8	12 2/4	.30			10 2/4																
3	.31			12	.30			10																
4	.32			11 3/4																				
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				12 2/4				10.33																
%				69				58.2																

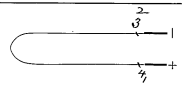
167B 1000 L. 10 a.m. 10.3.96 — 20 | 8.15 p.m. 10.6.96 — 46

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.38			13 1/2	.37			10 1/4	—			—												
2	.38			13 1/2	.36			10 1/4																
3	.34			12 3/4	.32			10 1/4	—			—												
4	.38		67.8	13 1/2	.37			10 1/4	—			—												
5	.34			12 1/2	.32 1/2			10 1/4	—			—												
6																								
7																								
8																								
9																								
10																								
Ave.				13.05				10.25																
%				66.1				53.9																

ORDER No. 106 Ed. # 167 T

At 17 3/4 Candles. Test Started 6.30 p.m. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	107 1/2	.35	9.05 a.m. 10.9.96	72.55	2		105 1/2	.34
2	105 1/4	.34	8.50 a.m. 10.12.96	91.20	3		103 1/2	.33
3	106 3/4	.34	8.20 a.m. 10.13.96	98.40	4		104 3/4	.33
4	106 1/2	.34 1/2	11 a.m. 10.6.96	38.30	1		104 3/4	.34
5								
6								
7								
8								
9								
10								
Avg.	106 1/2	.34375		59.53			104.62	.335

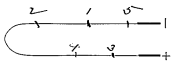


	Candles per H. P.
At 16 Candles.	351
At 17 3/4 Candles.	362

ORDER No. 107 Ed. # 167 1/2 B

At 19 3/4 Candles. Test Started 6.30 p.m. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	97 3/4	.40 1/2	10.20 a.m. 12.31.96	735.55	4		94 3/4	.39
2	98	.40	6.05 p.m. 12.31.96	828.55	5		95 1/2	.38
3	106	.36	10.15 a.m. 10.23.96	210.15	2		102	.35
4	100 1/4	.40	10.45 a.m. 10.29.96	264.15	3		96 1/2	.38
5	107 1/4	.35	11.45 a.m. 10.17.96	160.15	1		103 1/2	.34
6								
7								
8								
9								
10								
Avg.	101.85	.383		439.55			98.46	36.8



	Candles per H. P.
At 16 Candles.	329
At 19 3/4 Candles.	377

167	10am. 10.3.56				8.15pm. 10.6.56																			
160 L	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.37			8	~~.33~~			—	—			—												
2	.34			12½	.33			10	—			—												
3	.40		6g	14½	.40			11																
4	.37			8½	.35			7																
5	.34½			12½	.33½			11½	—			—												
6																								
7																								
8																								
9																								
10																								
Ave.				11.2				9.81																
%				82.3				46.7																

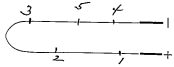
Swaney

169B	10am. 10.5.56				8.15pm. 10.6.56																			
	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			14	.40			11¾																
2	.40			14½	.40			12½																
3	.40			14½	.40			12¾																
4	.40			14½	.40			12¾																
5	.40½		6g.v	15	.40			12																
6																								
7																								
8																								
9																								
10																								
Ave.				14½				12.15																
%				67.4				56.1																

ORDER No. 108 Ed. #167½ T

At 21 Candles. Test Started 6.30 pm. 10.2.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	97	.44	3.55 pm. 10.5.96	28.25	1		92½	.41½
2	108¼	.37	8.40 am. 10.10.96	84.40	2		103½	.35
3	97½	.44	1.55 pm. 11.24.96	494.—	5		93¼	.41½
4	97	.44	3 pm. 10.26.96	231.30	4		93	.41
5	109	.37	4.50 pm. 10.21.96	187.50	3		103½	.35
6								
7								
8								
9								
10								
Avg.	101¾	.412		205.25			97.15	.388



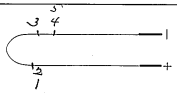
	Candles per H. P.
At 16 Candles.	317
At 21 Candles.	374

Swanson Wm

ORDER No. 109 Ed. #169 B

At 21⅔ Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

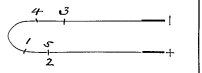
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (minutes)	Order of breaking.		Volts.	Amperes.
1	99	.44	10.20 am. 11.16.96	416.50	5		94½	.40
2	102	.43	5.30 pm. 11.11.96	379.45	4		96¼	.40
3	100	.44	9.05 am. 11.5.96	314.05	1		95½	.40
4	100½	.44	2.45 pm. 11.6.96	331.45	2		95	.40
5	100	.43	9.15 am. 11.9.96	356.15	3		95	.40½
6								
7								
8								
9								
10								
Avg.	101.3	.436		359.44			95¼	.401



	Candles per H. P.
At 16 Candles.	312
At 21⅔ Candles.	366

	10 a.m. 10-8-96				8.15 p.m. 10.6.96																			
169	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.38			$14\frac{2}{7}$	.37			$12\frac{2}{7}$	—			—												
2	.36			$14\frac{2}{7}$	.35			$11\frac{5}{7}$	—			—												
3	.38		43	$15\frac{2}{7}$	.37½			13	—			—												
4	.35½			$14\frac{2}{7}$	.35			$11\frac{3}{7}$	—			—												
5	.38			$14\frac{3}{7}$																				
6																								
7																								
8																								
9																								
10																								
Avg.				$14\frac{3}{7}$				12.06																
%				67				54.8																

ORDER No. 110 Ed. 169 T



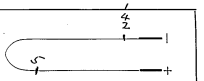
At 22 Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111½	.41	4.15pm. 10.9.96	78.15	5		106	.38
2	111	.38	11.50am. 10.9.96	74.50	4		105½	.35
3	112¼	.40	6pm. 10.7.96	56.–	3		105½	.38
4	111	.38	2.30pm. 10.7.96	52.30	2		105¼	.35
5	111	.40	11.10am. 10.6.96	38.40	1		104½	.37½
6								
7								
8								
9								
10								
Avg.	111.35	.394		60.03			105.35	.367

	Candles per H. P.
At 16 Candles.	.309
At 22 Candles.	.374

Lubaway Wire

ORDER No. 111 Ed. #173 B



At 20¾ Candles. Test Started 6.30pm. 10.1.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109½	.37	1.30pm. 10.2.96	9.00	2		104¾	.35
2	116½	.37	3.30pm. 10.2.96	11.00	4		110	.35
3	110	.37	8am. 10.2.96	4.30	1		105½	.35
4	109¾	.37	3.20pm. 10.2.96	10.50	3		105½	.35
5	110¼	.36	9.15pm. 10.	16.15	5		106½	.35
6								
7								
8								
9								
10								
Avg.	111.2	.369		10.19			106.45	.35

	Candles per H. P.
At 16 Candles.	.320
At 20¾ Candles.	.377

Lubaway Wire

Taken from box by Daly

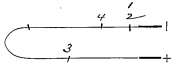
173[T]

	10am. 10.3.96																							
	20																							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.35			13½																				
2	.35			18¾																				
3	.35		63.7	13¾																				
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avs.				13.88																				
%				62.2																				

175[B]

	10am. 10.2.96				8.15pm. 10.6.96																			
	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			14	.40			11¾																
2	.40			14½	.40			11¾																
3	.40		63.7	14¾	.40			12¾																
4	.40			14½	.40			11½																
5	.40			14	.39			11½																
6																								
7																								
8																								
9																								
10																								
Avs.				14¼				11¾																
%				67.1				55.3																

ORDER No. 112 Ed. #173 T



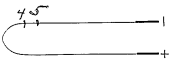
At 21½ Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	112	.38	8.30 am. 10.6.96	36 –	5/4		107	.36
2	112	.38	11.58 am. 10.5.96	25.28	3		107	.35
3	113	.38	10.40 pm. 10.5.96	34.30	4		108	.35½
4	113	.38	8 am. 10.3.96	18 –	2		108	.35½
5	113¼	.38	8.35 pm 10.1.96	2.05	1		108	.35
6								
7								
8								
9								
10								
Avg.	112.65	.38		23.20¾			107.6	.354

	Candles per H. P.
At 16 Candles.	313
At 21½ Candles.	375

(illegible) by Mr. (illegible)

ORDER No. 113 Ed. #175 B



At 21¼ Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	99¾	.44	2.30 pm 11.16.96	420 –			94½	.40
2	99	.43	"	420 –	John dan		94¼	.41
3	99¼	.43	"	420 –			94¼	.40
4	99	.43	5 pm. 10.29.96	269.30	1		94	.40
5	98½	.43	9.20 pm 11.10.96	369 –	2		94¼	.40
6								
7								
8								
9								
10								
Avg.	99.1	.432		37.47			94¼	.402

	Candles per H. P.
At 16 Candles.	315
At 21¼ Candles.	370

Put away in box

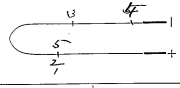
	10 a.m. 10.3.56				8.15 p.m. 10.6.56																			
175	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.42½		68.5	15½	.41			11½																
2	.42½			14¾	.40½			11¾																
3	.42½			14½	.41			11¾																
4	.41			13½	.40½			11																
5	.42½			15	.40			11¾																
6																								
7																								
8																								
9																								
10																								
Ave.				14.6				11½																
%				65.6				51.9																

277

329

	10.3.56				8.15 p.m. 10.6.56																			
140	20				46																			
No.	A.	R	V	C.P	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	.56			18½	.54			14¾																
4	.56			17¾	.54½			14¾																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				18.12				14½																
%				67.7				54.2																

ORDER No. 114 Ed. 175T



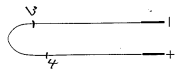
At 22¼ Candles. Test Started 6.30pm. 10.7.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	98	.45½	8.50pm 10.30.96	285.20	5		93	.42½
2	97½	.45½	7.45am. 10.22.96	193.45	3		92½	.42½
3	97½	.45½	7.45am. 10.29.96	261.15	4		92½	.42½
4	96	.46	7.50am. 10.9.96	70.50	1		91	.41½
5	98	.45	8.05pm. 10.11.96	153.35	2		92½	.41½
6								
7								
8								
9								
10								
Avg.	97.4	.455		192.87			92.3	.421

	Candles per H. P.
At 16 Candles.	307
At 22¼ Candles.	374

Rubaway in Lab

ORDER No. 115 Ed. #179B



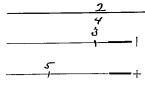
264 At 26¾ Candles. Test Started 6.30pm. 10.7.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	Oved						87	.50½
2	Broke on photo:						87¾	.50
3	94½	.57	4.45pm. 10.14.96	122.–	2		87	.50
4	93	.58	5.55pm. 10.12.96	99.25	1		85	.50
5								
6								
7								
8								
9								
10								
Avg.	93¾	.575		110.42½			86.69	.501

	Candles per H. P.
At 16 Candles.	274
At 26¾ Candles.	370

277 324

Rubaway in Lab



	Candles per H. P.
Candles.	326
Candles.	375

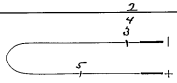
180	10 a.m. 10.3.96				8.15 p.m. 10.6.96																			
	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.36			12¾	.35			10¾																
2	.35			13	.35			10¾																
3	.36		71.5	14½	.35			11½																
4	.35			13½	.34½			11																
5	.35			13½	.35			11																
6																								
7																								
8																								
9																								
10																								
Ave.				13.45				10.9																
%				67.7				54.5																

182	10 a.m. 10.3.96				8.15 p.m. 10.6.96																			
	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			13½	.39			11½																
2	.39			13½	.38			10¾																
3	.39		44.6	14	.38			11½																
4	.40			14	.38½			11½																
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				13.69				11.19																
%				62.2				51.7																

ORDER No. 116 Ed. #180 T

At 20 Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	101	.38½	Taken down 9.50 am. 12.5.96	604.45			97	.37
2	102½	.38½	8 am. 11.18.96	440.38	4		98	.37
3	105¼	.40	11.25 am. 10.10.96	87.25	1		101¼	.38
4	102½	.38½	8.25 am. 10.24.96	220.55	2		97½	.37
5	103¼	.38	1.10 pm. 11.5.96	317.10	3		99½	.36½
6								
7								
8								
9								
10								
Avg.	102.9	.387		334.09			98.65	.371

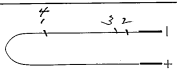


	Candles per H. P.
At 16 Candles.	326
At 20 Candles.	375

ORDER No. 117 Ed. #182 B

At 21⅔ Candles. Test Started 6.30 pm. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	101¼	.43	5.15 pm. 10.15.96	169.45	2		96¼	.40
2	104	.43	10.45 pm. 10.8.96	70.—	1		98½	.40
3	100	.42	8.10 pm. 11.5.96	323.10	3		95¼	.39
4	100	.43	9.35 pm. 11.10.96	369.35	4		95	.40
5								
6								
7								
8								
9								
10								
Avg.	101.31	.42¾		233.07			96¼	.39¾



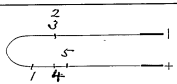
	Candles per H. P.
At 16 Candles.	312
At 21⅔ Candles.	373

Put away in box

	10 am. 10.3.96				8.15 pm. 10.6.96																			
182 T	20				46																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			14	.38			11 2/7	—															
2	.39			14 1/2	.38			11 2/7	—															
3	.39			13 1/2	.38			11	—															
4	.39			14 1/2	.38			11																
5	—			—	—			—	—															
6																								
7																								
8																								
9																								
10																								
Ave.				14.8				11.3																
%				66.7				53.5																

	2 30 pm. 10.5.96				8.15 pm. 10.4.96				9 pm. 10.5.96				8.30 pm. 10.4.96				8.15 pm. 10.20.96				9 pm. 10.26.96			
L.P.	20.10				39.10				75.10				119.25				169.25				228.55			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.44			17 3/7	.45			16 2/7	.43			16 5/7	.43			16 2/7	.43 2/7			15	.43			14
2	.44 1/2			16 5/7	.45			17 1/7	.44			16 3/7	.44			15 4/7	.44			15	.44			14 1/2
3	.45			17 1/7	.45			17 1/7	.44			17 4/7	.43			16	.44 2/7			16	.44			14 2/7
4	.45			17 1/7	.45			16 2/7	.45			16	.45			15 1/2	.44 3/7			15	.44 1/2			14
5	.43			16 4/7	.44			14 4/7	.43			15	.43			13 3/7	.43 2/7			14 2/7	.43 2/7			15 5/7
6																								
7																								
8																								
9																								
10																								
Ave.				16.95				16.45				16.3				15.45				15.15				14.65
%				102.4				98.2				97.3				92.2				90.4				87.5

ORDER No. 118 Ed. # 182 T

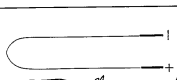


At 21¼ Candles. Test Started 6.30 Pm. 10.1.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	100½	.42	9 am. 11.23.96	477.05	3		96	.40
2	98¼	.42	11.30 a.m. 12.2.96	563.35	4		93¾	.39
3	99	.42	11 am. 10.21.96	183.–	2		95	.40
4	98	.42	5.45 pm. 12.14.96	668.–	5		94	.40
5	101½	.42½	11.30 a.m. 10.2.96	8.00	1		96½	.40
6								
7								
8								
9								
10								
Avg.	99.45	.421		379.56			95.05	.398

	Candles per H. P.
At 16 Candles.	316
At 21¼ Candles.	378

ORDER No. 119 L. F. K.



Spiral treated. Chemically Exhausted

At 16¾ Candles. Test Started 2.20 Pm. 10.2.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	111¼	.44		402.10			111	.44
2	110	.44½	Jakeden 9th pm. 11.13.96	402.10			109¾	.44½
3	111½	.44½		402.10			111	.44¾
4	109¼	.45	8.45 a.m. 11.7.96	331.55	1		109	.45
5	111½	.45	Jakeden 15th pm. 11.13.96	402.10			111¼	.45
6								
7								
8								
9								
10								
Avg.	110.7	.446		385.07			110.45	.4465

	Candles per H. P.
At 16 Candles.	242
At 16¾ Candles.	253

Put away in bin

186	2.45pm. 11.11.96				9.45 am. 11.13.96				5pm 11.16.96				9am. 11.20.96											
000 L.	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.40			13	.39			11	.39			10½	.38			9½								
2	.39½			12½	.39			11½	.38			10	.37½			9½								
3	.40			12½	.39½			11½	.39			10½	.38			9½								
4	.39½			12½	.39			11½	.38½			10	.37½			9								
5	.39½			13	.38½			11½	.38			10½	.37			9½								
6																								
7																								
8																								
9																								
10																								
Ave.				12.8				11½				10.35				9.4								
%				68.3				60				55.2				50.1								

190	2.45pm. 11.11.96				9.45am. 11.13.96				5pm 11.16.96				9am. 11.20.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.46			14½	.45½			12½	.45			12	.44			10½								
2	.47			14	.46½			12	.46			11	.45½			11								
3	.47			14	.46			12½	.45½			11½	.45			10½								
4	.46½			13½	.46			11¾	.45			11	.44½			10								
5	.46½			14½	.46			12½	.45			11½	.44½			10½								
6																								
7																								
8																								
9																								
10																								
Ave.				14				12.1				11.35				10½								
%				66.7				57.6				54				50								

ORDER No. 120 Ed. #186

At 18 3/4 Candles. Test Started 11.30pm 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	91	.42		239.15			87 1/2	.39 3/4
2	90	.41 3/4	Taken down	239.15			87	.40
3	92	.42 1/4	10am. 12/5/96	239.15			89	.40 3/4
4	89	.41 1/2		239.15			86 1/2	.40 1/4
5	89 1/2	.42	2pm. 11.24.96	131.35	1		86 1/2	.40 1/4
6								
7								
8								
9								
10								
Avg.	90.3	.419		217.43			87.3	.402

	Candles per H. P.
At 16 Candles.	339
At 18 3/4 Candles.	369

ORDER No. 121 Ed. #190

At 21 Candles. Test Started 11.30pm. 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	88	.48 1/4					83	.45
2	85 1/2	.50					80 1/4	.46 1/4
3	86 1/2	.49 3/4	Taken down				82	.46 1/4
4	86	.49					81 1/2	.46
5	86	.49					81 3/4	.46
6								
7								
8								
9								
10								
Avg.	86.4	.492					81.7	.459

	Candles per H. P.
At 16 Candles.	318
At 21 Candles.	376

191	2.45pm. 11.11.96				9.45am. 11.12.96				5pm. 11.16.96				9am. 11.20.96											
ODN L.	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50 3/4			15 1/2	.49			13 1/2	.49 1/2			13 1/2	.49			11 1/2								
2	.50			15	.49			12 3/4	.49 1/2			12	—			—	—							
3	.49 1/4			14 3/4	.49			13 1/4	.47 1/2			14	.46			11 3/4	—			—				
4	.50			15	.49			13	.48 3/4			12 1/4	.47 3/4			11								
5	.49 1/2			14 1/2	.48 1/2			12 1/2	.48 1/2			12 1/2	.47 3/4			11								
6																								
7																								
8																								
9																								
10																								
Ave.				14.95				13.1				12.85				11.31								
%				66.4				58.2				57.1				50.3								

193	2.45pm. 11.11.96				9.45am. 11.13.96				5pm. 11.16.96				9am. 11.20.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.46 1/2			14 1/4	.45			12 3/4	.44			12	.43			10	—			—				
2	.46			14	.45			11 3/4	.45			11 1/2	.44			10 1/2								
3	.45 3/4			14	.46 3/4			12 1/2	.44 1/2			11 1/2	.43 1/2			10 1/2								
4	.45			12 1/4	.45			12	.44			11	.43 1/2			10 1/2	—			—				
5	.45 3/4			13 1/2	.45 1/4			12 3/4	.45			11 1/2	.44			10 3/4								
6																								
7																								
8																								
9																								
10																								
Ave.				13.6				12.35				11.5				10.45								
%				66.2				60.2				56.1				51								

ORDER No. 122 Ed. #191

At 22½ Candles. Test Started 11.30pm. 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	85	.52	Fell down 9.50am. 12/11/96	239.05			80½	.49¼
2	86	.52	7.55am. 11.17.96	62.45	1		81¼	.48¼
3	86	.52¼	7.30pm. 12.2.96	207.05	2		81	.48½
4	86	.52	Fell down 9.50am. 12/11/96	239.05			81	.48¼
5	85	.52	do	239.05			80½	.48¼
6								
7								
8								
9								
10								
Avg.	85.6	.52		197.41			80.9	.485

	Candles per H. P.
At 16 Candles.	304
At 22½ Candles.	376

ORDER No. 123 Ed. #193

At 20½ Candles. Test Started 11.30pm. 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	87	.48¼	8.15pm 12.2.96	207.50	1		82½	.45¼
2	87	.48¾					.83	.46
3	86	.48	Fell down 10am 12/11/96				82	.45
4	85½	.48					81½	.45
5	84½	.49					80½	.45½
6								
7								
8								
9								
10								
Avg.	86	.484					81.9	.454

	Candles per H. P.
At 16 Candles.	322
At 20½ Candles.	367

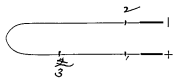
199	2.48pm. 11.11.96				9.45am. 11.13.96				5pm. 11.16.96				9am. 11.20.96											
days	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2	.28 2/4			10 2/4 .28				9	27 1/2			8 1/2 .27				7 1/2								
3	.29 1/2			10 2/4 .28				9	.28			8 1/4 .27 3/4				7 2/4								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				10 3/4				9				8.62				7.62								
%				69.3				58.1				55.6				49.2								

205	2.45pm. 11.11.96				9.45am. 11.13.96				5pm. 11.16.96				9am. 11.20.96				10.25pm. 12.4.96							
days	20				40				60				100				235:45"							
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.30			11 1/2 .29 1/2				10 1/2	.29			9 1/4 .28 3/4				8 .27 1/2				7 1/4				
2	.30			11 2/4 .29 1/2				11	.29			9 1/2 .28				8 1/2 .27				7	—			—
3	.32			11 1/2 .30				10 1/2	.30 2/4			9 3/4 .30				8 1/2 —				—	—			
4	.31			11 2/4 .30 1/2				10 1/2	.30			9 1/2 .29				8 1/2 .28 1/2				7 1/2				
5	.30			11 1/2 .29 3/4				10	.28 3/4			9 1/4 —				— —				—	—			
6	—			—												— —				—	—			
7	.30			12 .29				10 1/2	.28 3/4			9 3/4 .28				8 1/2 —				—	—			
8	.30			11 1/2 .29				10 1/4	.28 3/4			9 1/4 .28				8 1/4 .27				7 1/4				
9																								
10																								
Ave.				11.61				10.43				9.46				8.29				7.25				
%				72.5				65.2				59.1				51.8				45.3				

ORDER No. 124 Ed. #199

At 15½ Candles. Test Started 11.30 p.m. 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	102	.30	Broke on Photo.		1		102½	.30¼
2	100	.30¾	11.35 a.m. 12.10.96	268.40	3		100½	.31
3	99	.31	11.35 a.m. 12/5/96	240.50	2		99½	.31½
4								
5								
6								
7								
8								
9								
10								
Avg.	100.3	.306		254.45			100.8	.309

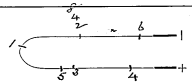


	Candles per H. P.
At 16 Candles.	382
At 15½ Candles.	377

ORDER No. 125 Ed. #205

At Candles. Test Started 11.30 p.m. 11.9.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			11.25 a.m. 12.24.96	416.30	8		100½	.32
2			9.35 a.m. 12.11.96	280.10	5		101¾	.32
3			2.30 p.m. 12.2.96	203.05	3		98¼	.33
4			8.15 p.m. 12.21.96	381.20	6		98½	.32¾
5			10.30 a.m. 11.17.96	65.20	2		101½	.31½
6			4.10 p.m. 11.10.96	8.10	1		101¼	.31½
7			3.05 p.m. 12.3.96	216.10	4		101	.31¼
8			11.05 a.m. 12.24.96	416.10	7		100½	.32
9								
10								
Avg.				248.22			100.4	.32



	Candles per H. P.
At 16 Candles.	371
At Candles.	

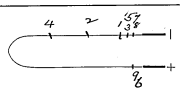
206 (800 c.)

	2.45pm. 11.11.96				9.45pm. 11.13.96				5pm. 11.16.96				9am. 11.20.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.32½			12½	.32			11	.31			9⅔	.30½			9	—			—				
2	.32			12¾	.31			11¼	.30½			10¼	.30			9								
3	.30½			11¾	.30			11	—			—	—			—	—			—				
4	.33			12½	.32½			11½	.32			10	.31½			8½								
5	.31			12	.29¾			10¾	.28⅔			9¼	—			—	—			—				
6	.30¼			11¼	.29¾			10¼	.29			9¼	.28½			8½	—			—				
7	.31			12	.30			11¼	.29			9½	.28¼			8½	—			—				
8	.30½			11	.30			10¼	.29½			9½	—			—	—			—				
9	.30½			11¼	.29¾			10½	.29			9¼	.28½			8½	—			—				
10																								
Ave.				11.88				10.92				9.59				8.66								
%				69.9				64.2				56.4				50.9								

207 (800)

	2.45pm. 11.11.96				9.45am. 11.13.96				5pm. 11.16.96				9am. 11.20.96											
	20				40				60				100											
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.27			10½	.26½			9¾	.26			8¾	.25½			7¾	—			—				
2	.26			10½	.25¾			9½	.25			8¾	.24¾			7¾	—			—				
3	.26			10	.26			9½	.25			8¼	.24¾			8	—			—				
4	.26¾			10¾	.26			10	.25½			9	.25			—	—			—				
5	.25½			10¾	.25			10	—			7	—			8	—			—				
6	.26			10¾	.25¾			10	.25½			9	.25			7¾	—			—				
7	.25½			11	.25			10	.24			8½	.24			8								
8	.26			10¾	.25			10	.25			9	.24½			—	—			—				
9	.26			10½	.25½			9¾	.25			9	—											
10																								
Ave.				10.58				9.83				8.84				7.86								
%				68.3				63.4				57.1				50.7								

ORDER No. 126 Ed. #206



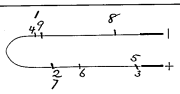
At 17 Candles. Test Started 11.30pm. 11.9.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	102	.34 1/4	8.05am. 11.23.96	113.40	5		101	.33 3/4
2	102	.33 1/2	4.40pm. 12.14.96	304.45	8		100 1/4	.33
3	104	.33	10.15am. 11.14.96	51.15	1		102 1/2	.32
4	101	.34 3/4	5.55pm. 12.22.96	394.–	9		99	.34
5	103	.33 1/4	8.40pm. 11.16.96	60.30	2		101 1/8	.32 1/2
6	104 1/2	.32 3/4	7.50am. 11.25.96	139.15	7		103 1/4	.32
7	101	.33	1.45pm. 11.20.96	102.10	4		100 1/2	.32 3/4
8	103	.32 1/2	10am. 11.17.96	64.50	3		102 1/4	.32 1/2
9	104 1/2	.32 3/4	8.15pm. 11.23.96	123.50	6		103 1/4	.32
10								
Avg.	102.8	.333		150.28			101.5	.327

	Candles per H. P.
At 16 Candles.	360
At 17 Candles.	371

Firmary Wm

ORDER No. 127 Ed. #207



At 15 1/2 Candles. Test Started At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when Broken.	Lamp Life. Minutes.	Order of Breaking.		Volts.	Amperes.
1	106 1/4	.28 3/4	12n. 12.8.96	246.15	7		107	.29
2	110	.28	9.25pm. 12.1.96	196.–	4		110 3/4	.28 1/2
3	107 1/2	.28 1/4	8.30am. 11.28.96	139.55	3		109	.28 3/4
4	109	.28 1/4	8.40pm. 12.2.96	208.15	6		110 1/2	.29
5	111	.28 1/2	9.45pm. 11.16.96	54.45	1		111 1/2	.28 1/2
6	108	.28	9.15am. 12.2.96	198.50	5		109	.28 1/2
7	111	.27 1/2	9.40am. 12.10.96	266.45	8		112	.28
8	109	.27 3/4	8.15pm. 12.15.96	317.20	9		110 1/2	.28 1/4
9	108	.27 3/4	7.10am. 11.20.96	98.10	2		110	.28 1/4
10								
Avg.	108.9	.281		191.48			110	

	Candles per H. P.
At 16 Candles.	381
At 15 1/2 Candles.	378

205

	1.05pm. 11.17.96				8.35a.m. 11.19.96				8.30 am. 11.21.96			
	20				40.50"				63.55"			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.30½			12	.30			10	.29			9
2	.30½			11¾	.30			10	.29½			9½
3	.30			12¼	.29			9¾	—			—
4	.30			12	.29⅞			10¼	.29			9¼
5	.30			12	.29⅞			9¾	.29			9½
6												
7												
8												
9												
10												
Avg.				12				9.95				9¼
%				75				62.2				57.8

	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3	—			—																				
4	—			—																				
5	—			—																				
6																								
7																								
8																								
9																								
10																								
Avg.																								
%																								

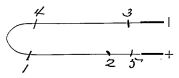
B
206

	1.05pm. 11.17.96				8.35am. 11.19.96				8.30am. 11.21.96			
	20				40.50				63.55"			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.29			9	.28½			7½	.28			7½
2	.29			9¾	—			—				
3	.28			9	.27⅞			7	.27			7½
4	.28½			9½	.28			7½	.27⅞			7½
5	.28½			9	.28			7½	.27½			7½
6												
7												
8												
9												
10												
Avg.				9½				7.37				7.31
%				74				59				58.5

	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1																								
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avg.																								
%																								

ORDER NO. 128 Ed. #205A

- at 2 watts -

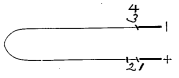


At Candles. Test Started 9.45 pm. 11.13.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. Minutes.	Order of breaking.		Volts.	Amperes.
1			1130 AM 2-11-97	799.50	5		100¼	.32
2			9.55 am. 1.9.97	492.30	2		100¼	.32
3			5.20 pm. 11.19.96	47.10	1		102	.31¾
4			2.40 P.M. 1-25-97	627.00	4		103	.31½
5			1.55 P.M. 1-25-97	626.15	3		102	.31¾
6								
7								
8								
9								
10								
Avg.							101.5	.318

	Candles per H. P.
At 16 Candles.	370
At Candles.	

ORDER NO. 129 Ed. #205B



At 12½ Candles. Test Started 9.45 pm. 11.13.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. Minutes.	Order of breaking.		Volts.	Amperes.
1	96	.30¼	4.50 pm. 12.14.96	258.10	2		100	.32
2	95	.31	7.45 am. 11.19.96	40.–	1		99¾	.32½
3	98½	.30	4 pm. 1.5.97	449.05	3		103	.32
4	97	.30	8.25 pm. 1.13.97	525.30	4		101¼	.32
5	97	.30					101¼	.31½
6								
7								
8								
9								
10								
Avg.	94.7	.302					101	.32

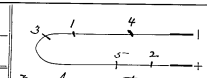
	Candles per H. P.
At 16 Candles.	369
At 12½ Candles.	320

205 @	1.05 pm. 11.17.96				8.35 am. 11.19.96				8.30 a.m. 11.21.96																			
600 L.	20				40'50"				63'55"																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.31			11½	.30			9	.29½			9												
2	.30			11½	.28			9½	.27½			9½	—		—									
3	—			—																				
4	.30			11½	.29¾			9½	.29½			9½												
5	.31½			11½	.30½			9	.30			8½												
6																								
7																								
8																								
9																								
10																								
Avo.				11.44				9.19				9												
%				71.5				57.4				56.2												

205	1.05 pm. 11.17.96				8.35 am. 11.19.96				8.30 am. 11.21.96															
600 L.	20				40'50"				63.55"															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.28½			9½	.28			7½	.27½			7½	—			—								
2	.29½			9½	.29			8	.28½			7½	—			—								
3	.29½			10½	.28			8½	.27½			7½												
4	.28½			10½	.28			8½	.27½			7½												
5	.30			10½	.29¾			8½	.29			8												
6																								
7																								
8																								
9																								
10																								
Avo.				10.05				8.05				7.6												
%				80.4				64.4				60.8												

ORDER No. 130 Ld: # 205 C

2 Watts



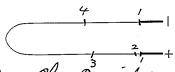
At Candles. Test Started 9.45 pm. 11.13.96 At 16 Candles.

New Lamp Mixture

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1			4 pm. 12.21.96	331.20	3		99 3/16	.32 1/2
2			3 pm. 12.10.96	224.20	2		100 1/4	.31 3/4
3			8.35 am. 11.17.96	16.40	1		101 1/4	.31
4			9.10 pm 12.21.96	335.30	4		101 1/2	.32
5			1.15 PM 1-19-97	567.50	5		97 1/2	.33
6								
7								
8								
9								
10								
Avg.							100	.32

	Candles per H. P.
At 16 Candles.	373
At Candles.	

ORDER No. 131 Ld: # 205 D



At 12 1/2 Candles. Test Started 9.45 pm. 11.13.96 At 16 Candles.

New Lamp Mixture

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	97	.30	11.20 am. 12.24.96	369.40	1		101	.31 3/4
2	93 3/4	.31	9.40 am. 1.5.97	443.45	2		97 1/4	.33
3	98	.29 1/2	4.25 PM, 2-24-97	930.25	4		102	.31 1/2
4	98	.29 3/4	9.25 am 1-7-97	471.15	3		102	.31 1/2
5	94 1/4	.31					98	.33
6								
7								
8								
9								
10								
Avg.	96.2	.303					100	.322

	Candles per H. P.
At 16 Candles.	371
At 12 1/2 Candles.	320

205 F 10.40 a.m. 11.18.96

20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1					—			—																
2	.30			11¼	—			—																
3	.29			11¼	—			—																
4	.30			11	—			—																
5	.30¾			12																				
6																								
7																								
8																								
9																								
10																								
Ave.				11.37																				
%				71.1																				

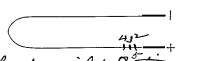
205 F 10.40 a.m. 11.18.96

20

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.30½			11¾																				
2	.29½			10¾																				
3	.30			11¼	—			—																
4	.30			11¼																				
5	.30¾			11																				
6																								
7																								
8																								
9																								
10																								
Ave.				11.3																				
%				67.8																				

ORDER No. 132 Ed. #205 F

at 2 Watts



Treated with 2 Sections

At Candles. Test Started 2.30 pm. 11.16.96 At 16 Candles.

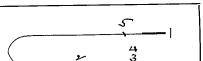
No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1			8.35 pm. 11.16.96	13.45	1		102	.31 1/4
2			9.40 am. 12.10.96	209.05	3		101	.32 1/2
3			3.10 pm. 12.18.96	300.35	4		102 3/4	.31
4			8.45 pm. 12.2.96	150.40	2		101 1/4	.32
5			8.50 AM. 1-19-97	583.30	5		100 1/4	.32
6								
7								
8								
9								
10								
Avg.							101.45	.3175

Candles per H. P.

At 16 Candles. 371

At Candles.

ORDER No. 133 Ed. #205 F



Treated with 6 Sections.

At 16 2/3 Candles. Test Started 2.30 pm. 11.16.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		Volts.	Amperes.
1	102 1/2	.32 3/4	11.50 am. 1.5.97	435.—	4		101 3/4	.32 1/2
2	104 1/2	.32	8.40 pm. 12.11.96	331.35	3		104	.32
3	103	.32 1/4	10.20 am. 12.1.96	129.15	1		102 1/4	.32
4	101	.32 1/4	10.05 pm. 12.10.96	219.30	2		100	.32
5	102 3/4	.33	2.05 pm. 1.8.97	472.30	5		102	.32 1/2
6								
7								
8								
9								
10								
Avg.	102 3/4	.3245		317.34			102	32.2

Candles per H. P.

At 16 Candles. 365

At 16 2/3 Candles. 373

205 g. 10.40am. 11.18 96

22.10

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.26½			5⅞	–			–																
2	.26⅞			5⅞	–			–																
3	.26½			5⅞	–			–																
4	.26½			5½																				
5	.26			4⅞																				
6																								
7																								
8																								
9																								
10																								
Ave.				5.4																				
%				67.5																				

Ed: 1pm. 12.9.96 | 10am. 12.11.96 | 3pm. 12.14.96

No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
	20				40				60															
1	.48⅜			20⅞	.48			18⅞	.48			16⅞												
2	.49			21	.48			18½	.47⅞			16½												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				20.62				18.38				16.37												
%				71.7				63.9				57												

ORDER No. 134 Ed. #205 G

At Candles. Test Started 2.30 pm. 11.16.96 At 8 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1			10.40 am. 11.18.96	22.10	1		90	.28
2			4.18 pm. 11.20.96	50.50	3		90 3/4	.28
3			2.45 pm. 11.18.96	24.15	2		89 1/4	.28
4	Taken down		9.45 pm. 12.5.96	183.10	—		89 3/4	.28
5			- - -	183.60	—		89 3/4	.28
6								
7								
8								
9								
10								
Avg.				92.68			89.9	.28

Candles per H. P.

At 8 Candles. 237

At Candles.

ORDER No. 135 Ed. #1

At 28 3/4 Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life. (Minutes)	Order of breaking.		Volts.	Amperes.
1	108 1/2	.51 1/4	Taken down 7.10 pm. 12.17.96	100			99 1/4	.45 1/2
2	109 1/2	.51 1/4		100			100 1/4	.45 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109	.5125		100			99.75	.455

Candles per H. P.

At 16 Candles. 262

At 28 3/4 Candles. 385

Pd. #3 1000 L.	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96																			
	20				40				60																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50½			23	.49½			20½	.49			17												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23				20.5				17												
%				72.4				64.6				53.5												

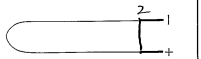
Jul 17 96

Pd. #4 1000 L.	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48½			22	.47½			18	—			—												
2	.50½			24	.49½			19¾	.49			18												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23				18.88				18												
%				60				65.7				62.6												

ORDER No. 136 Ed. #3

At $31\frac{3}{4}$ Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	109	.52	Fallen down 7.10 p.m. 12.17.96	100	2nd		98	.45¼
2	119¼	.55	11.25 a.m. 12.5.96	.55½	1		109¾	.48
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114.12	.535		—			103.87	.4662

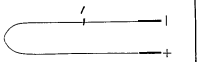


	Candles per H. P.
At 16 Candles.	246
At $31\frac{3}{4}$ Candles.	387

ORDER No. 137 Ed. #4

At $28\frac{3}{4}$ Candles. Test Started 10.30 a.m. 12.5.96

No. of Lamp.	Volts.	Amperes.	Time when broken.	Lamp life (minutes)	Order of breaking.		At 16 Candles. Volts.	Amperes.
1	113¼	.49¼	8.45 p.m. 12.11.96	46.15	1		103¼	.44
2	111½	.51	Fallen down 12.17.96 7.10 p.m.	100.—	—		101	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112.38	.5012		—			102.12	.445



	Candles per H. P.
At 16 Candles.	262
At $28\frac{3}{4}$ Candles.	379

Ed: #5 Wt.	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.45½			20½	.43½			16½	.43			14½	—			—								
2	.49			23	.48			20	.47½			18												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Avs.				21¾				18¼				16¼												
%				77				64.6				57.5												

Johnson 12.17.96

Ed: #6 Wt.	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.51			21	.50¾			19½	.50			17½												
2	.50			23	.49			19¾	.48			17¾												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22				19.62				17.37												
%				75.9				67.7				59.9												

Johnson

ORDER No. 138 Ed: #5

At 28¼ Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116½	.47½	9 p.m. 12.18.96	74.20	1		106½	.42½
2	111½	.50	Fallen down 12.17.96 7.10 p.m.	100			101½	.44¾
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	114	.4875		✓			104	.436

	Candles per H. P.
At 16 Candles.	264
At 28¼ Candles.	379

ORDER No. 139 Ed. #6

At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	108¼	.53	Fallen down 7.10 p.m. 12.17.96	100			98¾	.47
2	110	.51		100			100¼	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	109.12	.52		✓			99½	.46

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	383

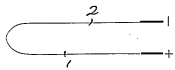
7	1pm. 12.9.96				10am. 12.11.96																			
6000 L.	20				40																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	—			—	—			—																
2	.49½			23	.48			18½																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				23				18½																
%				78.6				63.2																

8	1pm. 12.9.96				10am. 12.11.96				3pm. 12.14.96															
6000 L.	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48½			19½	.47			16	.46			14½												
2	.50			19	.49			16	.48			14½												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				19.38				16				14½												
%				63.5				52.5				47.5												

ORDER No. 140 Ed: #7

At 29¼ Candles. Test Started 10.30 am. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116	.51½	1.40pm 12.8.96	7.10	1		105¾	.45½
2	109	.50	3.50 – 12.11.96	42.20	2		99	.44½
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112½	.5075		24.65			102.38	.45

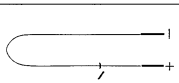


	Candles per H. P.
At 16 Candles.	259
At 29¼ Candles.	382

ORDER No. 141 Ed: #8

At 30½ Candles. Test Started 12. 5. 96 10.30 am At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116¾	.51	9.30pm 12.14.96	61.15	1		105	.44½
2	115¼	.53	Fallen down 12.17.96 7.10pm	100.—	—		104	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	116	.52		✓			104½	.4525



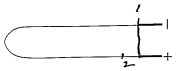
	Candles per H. P.
At 16 Candles.	253
At 30½ Candles.	377

11	1 p.m. 12.9.96				10 p.m. 12.11.96				3 p.m. 12.14.96																			
	20				40				60																			
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			22	.48			18	.47			16½																
2	.50			21¾	.48½			19	.47½			16¾																
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
Ave.				21.62				18½				16½																
%				75.2				64.3				57.4																

ORDER NO. 142 Ed: #10

At 31 Candles. Test Started 10.30 a.m. 12.5.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At 16 Candles. VOLTS.	AMPERES.
1	117	.54	11.45 a.m. 12.5.96	1.15	1		104 3/4	.46
2	117	.54	1.50 p.m. 12.8.96	7.20	2		104	.46
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	117	.54		4.17			104.38	.46

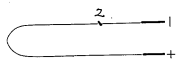


	Candles per H. P.
At 16 Candles.	248
At 31 Candles.	372

ORDER NO. 143 Ed: #11

At 28 3/4 Candles. Test Started 10.30 a.m. 12.5.96

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		At Candles. VOLTS.	AMPERES.
1	114 3/4	.50 1/2	Taken down 7 p.m. 12/5/96	100	—		104	.44 1/2
2	111	.50 1/2	9.50 p.m. 12.14.96	61.35	1		100 1/4	.44 1/2
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112.87	.505		—			102.12	.445



	Candles per H. P.
At 16 Candles.	262
At 28 3/4 Candles.	377

12	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.45			21 2/3	.48 5/8			18 1/2	.42 5/8			16 1/4												
2	.49 3/4			24	.49			20	.48			18 1/4												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22.88				19 1/4				17 1/2												
%				81.7				68.7				62.5												

13	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50 1/2			23 1/2	.50			20 1/2	.49			17 1/2												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10				23 1/2				20 1/2				17 1/2												
Ave.				81				70.7				60.3												
%																								

ORDER No. 144 Ed. #12

At 28 Candles. Test Started 10 30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	116	.47	Fell down 7.10 pm 12.17.96	100.			105½	.41½
2	110	.57		100.			101	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113	.49		✓			103.25	.4325

	Candles per H. P.
At 16 Candles.	267
At 28 Candles.	378

ORDER No. 145 Ed. #13

At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. (MINUTES)	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	109½	.52	Fallen down 7.10 pm 12.17.96	100	—		99½	.46
2	115½	.50	9 a.m. 12.9.96	17.00	1		104	.44
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	112.38	.51		✓			101.75	.45

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

14	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.50½			22	.49			17½	.48			15½												
2	.49½			21	—			—																
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				21½				17½				15½												
%				70.5				57.4				50.8												

Taken down 2 p.m.

15	1 p.m. 12.9.96				10 a.m. 12.11.96				3 p.m. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.49			21½	.48			18	—			—												
2	.50			23	.49¼			19½	.48¾			17¾												
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				22¼				18¾				17¾												
%				74.7				64.7				61.2												

Taken down 1 p.m. 1/10/96

ORDER NO. 146 Ed. #14

At 30½ Candles. Test Started 10 30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1	113½	.52½	taken down 7.10 pm 12/11/96	100	—	102	.45 1/4
2	117	.52	7.55 a.m. 12.11.96	24.25	1	105½	.45
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	115¼	.5225				103¾	.4637

1 — 2 — +

	Candles per H. P.
At 16 Candles.	253
At 30½ Candles.	378

ORDER NO. 147 Ed. #15

At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

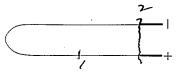
NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE (MINUTES)	ORDER OF BREAKING.	VOLTS.	AMPERES.
1.	112¼	.50½	10.45 a.m. 12.12.96	51.45	1	101¾	.44¾
2	111	.57½	Taken down 12.17.96 7.10 pm	100		100¾	.45½
3							
4							
5							
6							
7							
8							
9							
10							
Avg.	112.62	.57				101¼	.4572

1 — 1 — +

	Candles per H. P.
At 16 Candles.	261
At 29 Candles.	377

16	1 pm. 12.9.96				10 am. 12.11.96				3 pm. 12.14.96															
	20				40				60															
No.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.	A	R	V	C.P.
1	.48½			25	.47			19¾	.48½			17												
2																								
3																								
4																								
5																								
6																								
7																								
8																								
9																								
10																								
Ave.				25				19¾				17												
%				86.2				68.1				58.6												

ORDER No. 148 Ed: #16



At 29 Candles. Test Started 10.30 a.m. 12.5.96 At 16 Candles.

NO. OF LAMP.	VOLTS.	AMPERES.	TIME WHEN BROKEN.	LAMP LIFE. UNIFORMITY.	ORDER OF BREAKING.		VOLTS.	AMPERES.
1	111 3/4	.57	10.20 a.m. 12.17.96	93.10	2		101 1/4	.45
2	114 1/4	.57 1/2	11.55 a.m. 12.8.96	6.25	1		103 3/4	.45
3								
4								
5								
6								
7								
8								
9								
10								
Avg.	113	.5125		49.68			102.5	.45

	Candles per H. P.
At 16 Candles.	259
At 29 Candles.	37 1/2